

# CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. www.cbil.ac.in



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

# 44

years

3.7.2 Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)

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**Principal**

**Chaitanya Bharathi Institute of Technology  
(Autonomous)**

**Gandipet, Hyderabad-500 075.**

MEMORANDUM OF UNDERSTANDING  
BETWEEN  
GREENBUBBLE ALGAL WORKS PVT LTD,  
BENGALURU



AND

CHAITANYA BHARATHI INSTITUTE OF  
TECHNOLOGY (A), HYDERABAD



CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)  
Affiliated to Osmania University

## Memorandum of Understanding

This Memorandum of Understanding ("MOU" also called "Agreement") is made as of the \_\_\_\_\_ of January, 2021 between Chaitanya Bharathi Institute of Technology, Hyderabad (hereinafter called "CBIT(A)" or "Institute") and M/s GreenBubble Alga works hereinafter called "Greenbubble" or "Industry".

### 1. Introduction

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (CBIT(A)), established in the Year 1979, esteemed as the Premier Engineering Institute in the States of Telangana and Andhra Pradesh, was promoted with an Objective to facilitate the Best Engineering and Management Education to the Students and contribute towards meeting the need of Skilled and Technically conversant Engineers and Management Professionals, for the Country that embarked on an Economic Growth Plan. In its four decades of existence, all the Stake Holders of the Institute, relentlessly endeavored to position CBIT(A) as an Institution that is a Leader and an Innovator in the Ecosystem of Engineering Higher Education and Management. With the Students being the singular Objective, the Institute has established excellent Infrastructure such as State-of – the Art Laboratories, spacious Library with Printed and Digital Collection of Books and Journals, Sports, Hostel, and other Infrastructure for Research, Innovation, Incubation, Entrepreneurship, Extra and Co-Curricular Engagements with a total built-up Area of about 57,714 Sq. Mts., in the serene Ambience of 50 Acres to inspire, encourage and pursue Academics. In its relentless strive for Academic excellence, CBIT(A) has scaled great heights both Nationally and Internationally in Industry and Global Universities and at Present is an Autonomous Educational Institution CBIT(A)

### 2.0 Recitals

Greenbubble is interested in engaging with CBIT(A) in areas of mutual interest as framework outlined below but not necessarily restricted to those mentioned in the document

CBIT(A) is having faculties with expertise in the area of IT-Technology and other emerging technologies areas, whose services can be availed by Greenbubble to develop new products/process required by the customers and the society. The Proposed Interaction will

also help students of CBIT (A) to have industry interaction and involvement in development projects taken up by Greenbubble along with CBIT(A) or live projects being carried out by Greenbubble for other organizations under their internship. The industrial visits by the students will provide them with an exposure to various equipments, design and manufacturing/business process etc.

Greenbubble is interested in engaging with CBIT(A) in areas of mutual interest with focus areas as follows. In consideration of the mutual benefits to be derived hereafter, the parties agree to enter into an Agreement as follows:

#### **ARTICLE – I: Scope of the MoU**

This MoU details the modalities and general conditions regarding collaboration between CBIT(A) and Greenbubble for enhancing, within the country, the availability of highly qualified manpower in the areas of Microalgal Biotechnology and other allied areas. The area of interaction will also include training and internship of CBIT(A) students to work on live projects at Greenbubble. The areas of cooperation can be further extended through mutual consent.

#### **ARTICLE – II: Scope and Terms of Interactions**

Both CBIT(A) and Greenbubble shall encourage interactions between both the Institutes, Students & Staff and Engineers, of both the organizations through the following arrangements:

1. Both CBIT(A) and Greenbubble will plan to work on Joint development projects of Mutual Interest and also explore for joint working on Govt. funded projects based on mutual agreement.
2. Practical training of CBIT(A) students at Greenbubble in the form of Internship once the industry have necessary facilities to support the same.
3. Joint guidance of student projects/thesis in various technical areas including Microalgal Biotechnology and other allied areas of national interest.

4. Greenbubble may depute its personnel as visiting faculty at CBIT(A) to supplement the teaching of any of the regular Course or specialized topics.
5. Greenbubble may seek assistance/guidance of CBIT(A)'s RE Hub for incubating New ideas and initiating any start-up company to develop new products or process along with CBIT(A).
6. Greenbubble will allow the industrial visits of students for half/full day to provide them with an exposure to various equipment, instrument, etc.
7. Greenbubble may be allowed to showcase its business activities at the Seminar/Workshop/Conference, etc. if possible, at CBIT(A) that will be conducted time-to-time, with necessary permission from CBIT(A).
8. Greenbubble may avail library facilities at CBIT(A) for combined projects for students' project work with necessary permission from the Institute.
9. There will be no restriction on the contents of the thesis and on publication of results of the thesis, subject to the condition that no Intellectual Property Rights can be secured for any part of the work which will be decided with mutual consent.
10. If the outcome of a project related to product development, process technology and design etc. which involves matter of secrecy and concern with security of the State and the Country, the same will not be allowed for publication/printing in any form such as Electronically/verbal, etc.
11. If the outcome of an Internship or the Thesis work or the combined project results into an intellectual property, for which rights can be secured, it will be decided on case-to-case basis depending upon the contribution from both the Institutions. Similarly, sharing of expenditure in securing such rights and income accrued through royalty etc. will be decided on case- to-case basis after mutual consultation and agreement.

#### **ARTICLE-III: Sharing of Facilities**

- a) Greenbubble shall extend its facilities for CBIT(A) students towards the smooth conduct of Internships and Projects depending on their convenience and availability of time & staff

- b) CBIT(A) and Greenbubble may explore to share their respective important R&D facilities in order to promote academic and research interaction in the areas of cooperation depending upon availability of such facility without affecting their regular working.
- c) CBIT(A) and Greenbubble will permit the sharing software and other components developed during any combined project work in the areas of cooperation, if permissible within the rules governing the two institutions. However, responsibility regarding confidentiality terms of the software and other materials during the exchange will rest on respective Head of department of the branch/section and Greenbubble.
- d) Greenbubble provide access to the library facilities to the members of faculty and students as per the prevailing rules and norms.

**ARTICLE-IV : Effective Date and duration of the MoU.**

- a) This MoU will be effective from the date of its approval by competent authorities at both ends.
- b) The duration of the MoU will be for a period of 2 years from the effective date which may be extended after mutual understanding. However, if any Important combined projects are under execution, both parties agree to complete the work even the MoU is not effective after two years.
- c) During its tenancy, the MoU may be extended or terminated by a prior notice of not less than one month by either party. However, termination of the MoU will not in any manner affect the interests of the students & faculty who have been admitted to pursue a Training/Project under the MoU.
- d) Any clause or article of the MoU may be modified or amended by mutual agreement of Greenbubble and CBIT(A).

**ARTICLE - V: IPR**

Rights regarding publications, patents, royalty, ownership of software/design/product developed etc. under the scope of this MoU, will be decided by CBIT and Greenbubble based on Mutual agreement.

#### **ARTICLE – VI: Confidentiality**

During the tenure of the MoU both CBIT(A) and Greenbubble will maintain strict confidentiality and prevent disclosure of all the information and data exchanged under the scope of this MoU for any purpose other than in accordance with this MoU.

Both CBIT(A) and Greenbubble shall bind their respective personnel who come into possession or knowledge of any confidential information not to disclose the same to third parties without written approval of the disclosing party or use such confidential information for any use other than intended under this agreement or PROJECTS. Further both CBIT(A) and Greenbubble should put in place adequate and reasonable measures to keep and store confidential information secure so as to prevent any unauthorized use.

CONFIDENTIAL INFORMATION shall mean any proprietary information, data or facts belonging to PARTIES collectively or severally, disclosed by the disclosing party under this agreement or any subsequent agreement, whether in writing, verbal or electronically, irrespective of the medium in which such information is stored, which is marked confidential or with any other words having similar meaning by the disclosing party, or specifically agreed to be kept confidential by the parties, or declared or identified so by the disclosing party before such disclosure or during the discussions. However confidential information should not include any data or information which:

- (a) is or becomes publicly available through no fault of the receiving party,
- (b) is already in the rightful possession of the receiving party prior to its receipt of such data or information;
- (c) is independently developed by the receiving party without reference to the confidential information of the disclosing party.

- (d) is rightfully obtained by the receiving party from a third party or is in the public domain
- (e) is disclosed with the written consent of the party whose information it is, or
- (f) is disclosed pursuant to court order or other legal compulsion, after providing prior notice to the disclosing party.

#### **ARTICLE – VII: AMENDMENTS**

Any amendment and/or addenda to the AGREEMENT should be in writing and signed by the PARTIES hereto and shall only after such execution be deemed to form part of the AGREEMENT and have the effect of modifying the AGREEMENT to the extent required by such amendment or addenda.

#### **ARTICLE – VIII: Compensation, Force Measure, Approval and Dispute Settlement**

##### **a) Compensation**

Neither Party shall be liable to the other for any incidental, indirect, special or consequential damages, including but not limited, to loss of profits, loss of use, loss of revenues or damages to business or reputation arising out of or in connection with this Agreement or any aspect thereof. Neither Party shall be liable to the other by reason of the termination or expiry of this Agreement for compensation or damages on account of the loss of prospective business or on account of expenditures in expectation thereof.

##### **b) Force Majeure**

Any delay or failure in performance by the party to this Agreement, shall not constitute default hereunder to give rise to any claims for damages against said party, if any, to the extent caused by matters beyond the control of said party including but not limited to acts of Nature, Strikes, Lock outs or other concerted acts of workmen, fires, floods, explosions, blockages, embargoes, riots, war (declared or undeclared), rebellion, sabotage, extraordinary severe weather, pandemic situation, civil commotion and criminal acts of third persons. If the project under execution is delayed by such force majeure, then upon the happening of such delay, the parties within 30 days of the



to give fair and reasonable extension of time for the projects at their discretion but no monetary allowances shall be made unless it is mutually agreed.

**c) Approval of the MoU**

This Agreement may be signed by authorized officials, whether by original signature or by scanned signature due to the current situation (provided the pdf documents accompanied with official email), signature/approval over official email, with the same effect as if the signature to any counterpart was an original signature upon the same instrument.

**d) Dispute and Settlement**

- i) In case of any dispute (s), steps shall be taken by the parties to the MOU to settle the same through amicable negotiations. In case, dispute is not settled in negotiations, it shall be referred to Conciliator appointed by the designated official as per the bye law of CBIT(A), Hyderabad to arrive at a settlement.

In case dispute is not settled in conciliation proceedings, the same shall be referred to Arbitration for resolution of the dispute under Arbitration and conciliation Act 1996. The arbitration proceeding shall be conducted as per provisions of the Arbitration and Conciliation Act, 1996. The dispute shall be referred for arbitration to sole arbitrator to be appointed by the designated official (s) as per the bye law of CBIT(A) – Hyderabad. The award of the sole arbitrator shall be final and binding on both the parties. The venue of the Arbitration shall be at Hyderabad in India. The Award to be given by the Arbitration shall be a speaking award.

ii) Applicable Laws and Jurisdiction of Courts

Indian laws both substantive and procedural, for the time being in force, including modifications thereto, shall govern the MOU including the arbitral proceedings. The competent Courts at Hyderabad in the State of Telangana - India shall have sole jurisdiction. All questions, disputes, differences arising out of or in connection with

with this MOU shall be to the exclusive jurisdiction of Hyderabad courts in the State of Telangana.

For

M/s Greenbubble Alga works Pvt Ltd  
Technology

For Greenbubble Algalworks Pvt. Ltd



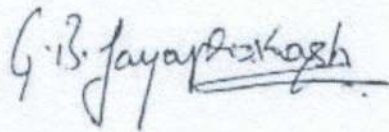
Director

By

Name: Mr. Harshith Sirigeri

Director

Witness:



For

Chaitanya Bharathi Institute of  
Hyderabad

By



Name : Dr. G. P. Saradhi Varma

Principal Principal

Chaitanya Bharathi Institute of Technology  
(Autonomous)

Gandipet, Hyderabad-500 075.

Witness:

Dr. Y. Laxmi 30/1/21  
HOD, Bio tech Dept,  
CLIT, Gandipet

HEAD  
Dept. of Bio-Technology  
Chaitanya Bharathi Institute of Technology  
Gandipet, Hyderabad-500 075





[https://drive.google.com/file/d/1ydtvmbWMOm3kKc\\_fMwuWpW9esuWFgO7Q/view?usp=share\\_link](https://drive.google.com/file/d/1ydtvmbWMOm3kKc_fMwuWpW9esuWFgO7Q/view?usp=share_link)

Background: GreenBubble is into large scale production of microalgae and we already grow over 700 tons of algae every year. We want adopt more algae and also help build skill in the education department as well as teach students to look at industrial development of sciences.

Research projects: The main goal of these projects is to assist in industrial production of microalgae and reduce the technical difficulties of the same. All of these projects will be done at lab scale first and successful projects will be implemented in a large pilot scale at our locations. Students will have the opportunity to participate and help design industrial scale project pilots, which is a great learning.

- 1) In the algae industry one of the most expensive operations and tedious operation is harvesting. To tackle this problem its easier to harvest algae that have size of greater than 25 microns. Some example of such algae are Micrasterias laticeps, many diatoms, Spirulina etc. The goal of this project is to cultivate such algae and keep and culture collection for further use and experiments.
  - a. Identify through literature different algae
  - b. Do basic literature study of their characteristics?
  - c. Source suitable algae from culture collection.
  - d. Collect algae from ponds and other areas by screen through 25-micron filter cloth.
  - e. Culture the algae
  - f. Maintain culture collection
  
- 2) In the algae industry contamination from ciliates and other algae is an issue and PBR is the recommended solution. But PBR are very expensive and not a great solution to scale and industrialize. Development of low cost PBR and methodologies use simple polyethylene covers and sheets are popular rite now. The project explores and builds PBR's of the scale from 10 L to 100 L.
  - a. Design options for low cost PBR's
  - b. Understanding different dynamics involved
  - c. Calculation of the required sizes and modeling.
  - d. Developing a BOM for the PBR's
  - e. Building of the actual PBR's
  
- 3) Using the built PBR, developing of the screened algae cultures. Using the low cost PBR's we will try to culture the microalgae that have been screened in the 1<sup>st</sup> project. We will select algae from those for industrial implantation after studying the following parameters:
  - a. Productivity (Yield)
  - b. Ease of culture (How easy is to simulate growth environment)

- c. Usable compounds if present
  - i. Identify pigments like fucoxanthin, chlorophyll.
  - ii. Identify Omega 3 and Omega 6 content
  - iii. Check for EPA DHA
  
- 4) Artificial lighting is one of the most expensive aspects of micro algae cultivation indoors. But diatoms are able to grow at much lesser light requirements than many other algae. The goal is to grow algae in lower illumination of 500 to 600 Lux and see which algae grows best and what's the highest density that can be reached.
  
- 5) Nutrition or chemicals required to grow algae are usually very expensive. In this project we will be looking at the performance of one of our organic media that uses agricultural waste to grow algae and tweaking the media to get maximum growth rate. The same will be tested for multiple algae and the media's effect on the compound of interest in the specific algae.
  
- 6) Evaluation of multiple anode performance and electric performance using electrocoagulation. Once sufficient algae is grown we will evaluate the usage of various electrodes and growability of culture post electrocoagulation. We will be using anodes such as mg, aluminum, iron, titanium, platinum, MMO etc and checking efficiency of the algae used and electrode.



MEMORANDUM OF  
UNDERSTANDING  
BETWEEN  
SVAK LIFESCIENCES, HYDERABAD



AND  
CHAITANYA BHARATHI INSTITITUTE  
OF TECHNOLOGY (A), HYDERABAD



CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)  
Affiliated to Osmania University

## Memorandum of Understanding

This Memorandum of Understanding ("MOU" also called "Agreement") is made as of the XX of January 2021 between Chaitanya Bharathi Institute of Technology, Hyderabad (hereinafter called "CBIT" or "Institute") and SVAK Life Sciences, Plot No-92B, Road No-8, ALEAP Industrial Area, Near Pragathi Nagar, Gajula Ramaram, Hyderabad-500090 hereinafter called "SVAK Life Sciences" or "Industry".

### 1. Introduction

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, established in the Year 1979, esteemed as the Premier Engineering Institute in the States of Telangana and Andhra Pradesh, was promoted with an Objective to facilitate the Best Engineering and Management Education to the Students and contribute towards meeting the need of Skilled and Technically conversant Engineers and Management Professionals, for the Country that embarked on an Economic Growth Plan. In its four decades of existence, all the Stake Holders of the Institute, relentlessly endeavored to position CBIT as an Institution that is a Leader and an Innovator in the Ecosystem of Engineering Higher Education and Management. With the Students being the singular Objective, the Institute has established excellent Infrastructure such as State-of-the Art Laboratories, spacious Library with Printed and Digital Collection of Books and Journals, Sports, Hostel, and other Infrastructure for Research, Innovation, Incubation, Entrepreneurship, Extra and Co-Curricular Engagements with a total built-up Area of about 57,714 Sq. Mts., in the serene Ambience of 50 Acres to inspire, encourage and pursue Academics. In its relentless strive for Academic excellence, CBIT has scaled great heights both Nationally and Internationally in Industry and Global Universities and at present is an Autonomous educational institution (CBIT(A))

### 2.0 Recitals

SVAK Life Sciences, is interested in engaging with CBIT(A) in areas of mutual interest as framework outlined below but not necessarily restricted to those mentioned in the document

*M. Lakshmi*

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SVAK Life Sciences, is interested in engaging with CBIT(A) in areas of mutual interest with focus areas as follows. In consideration of the mutual benefits to be derived hereafter, the parties agree to enter into an Agreement as follows:

#### **ARTICLE – I: Scope of the MoU**

This MoU details the modalities and general conditions regarding collaboration between CBIT(A) and SVAK Life Sciences, for enhancing, within the country, the availability of highly qualified and skilled manpower in the areas of Medicinal Chemistry and Drug design along with Microbial degradation of pharmaceutical products and enzymatic reactions. The area of interaction will also include training and internship of CBIT(A) students to work on live projects at SVAK Life Sciences. The areas of cooperation can be further extended through mutual consent.

#### **ARTICLE – II: Scope and Terms of Interactions**

Both CBIT(A) and SVAK Life Sciences shall encourage interactions between both the Institutes, Students & Staff and Engineers, of both the organizations through the following arrangements:

1. Both CBIT(A) and SVAK Life Sciences will plan to work on Joint development projects of Mutual Interest and also explore for joint working on Govt. funded projects based on mutual agreement.

2. Practical training of CBIT(A) students at SVAK Life Sciences in the form of One-full Semester Internship at SVAK Life Sciences;
3. Joint guidance of student projects/thesis in various technical areas including Microbial degradation of APIs, enzymatic reactions for the synthesis of pharmaceutical products and other allied areas of national interest at CBIT(A) by SVAK Life Sciences on mutual agreement.
4. SVAK Life Sciences may depute its personnel as visiting/guest faculty at CBIT(A) to supplement the teaching of any of the regular Course or specialized topics.
5. SVAK Life Sciences may seek assistance/guidance of CBIT(A)'s RE Hub for incubating New ideas and initiating any start-up company to develop new products or process along with CBIT(A).
6. SVAK Life Sciences will allow the Industrial visits of students for half/full day to provide them with an exposure to various equipment, instrument, etc.
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9. There will be no restriction on the contents of the thesis and on publication of results of the thesis, subject to the condition that no Intellectual Property Rights can be secured for any part of the work which will be decided with mutual consent.
10. If the outcome of a project related to product development, process technology and design etc. which involves matter of secrecy and concern with security of the State and the Country, the same will not be allowed for publication/printing in any form such as Electronically/verbal, etc.
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#### **ARTICLE-III: Sharing of Facilities**

- a) **SVAK Life Sciences** shall extend its facilities for **CBIT(A)** students towards the smooth conduct of Internships and Projects depending on their convenience and availability of time & staff.
- b) **CBIT(A)** and **SVAK Life Sciences** may explore to share their respective important R&D facilities in order to promote academic and research interaction in the areas of cooperation depending upon availability of such facility without affecting their regular working.
- c) **CBIT(A)** and **SVAK Life Sciences** will permit the sharing software and other components developed during any combined project work in the areas of cooperation, if permissible within the rules governing the two institutions. However, responsibility regarding confidentiality terms of the software and other materials during the exchange will rest on respective Head of department of the branch/section and **SVAK Life Sciences**.
- d) **SVAK Life Sciences** provide access to the library facilities to the members of faculty and students as per the prevailing rules and norms.

#### **ARTICLE-IV : Effective Date and duration of the MoU .**

- a) This MoU will be effective from the date of its approval by competent authorities at both ends.
- b) The duration of the MoU will be for a period of 2 years from the effective date which may be extended after mutual understanding. However, if any important combined projects are under execution, both parties agree to complete the work even the MoU is not effective after two years.
- c) During its tenancy, the MoU may be extended or terminated by a prior notice of not less than one month by either party. However, termination of the MoU will not in any manner affect the interests of the students & faculty who have been admitted to pursue a Training/Project under the MoU.
- d) Any clause or article of the MoU may be modified or amended by mutual agreement of **SVAK Life Sciences** and **CBIT(A)**.

#### ARTICLE - V: IPR

Rights regarding publications, patents, royalty, ownership of software/ design/product developed etc. under the scope of this MoU, will be decided by CBIT and SVAK Life Sciences based on Mutual agreement.

#### ARTICLE – VI: Confidentiality

During the tenure of the MoU both CBIT(A) and SVAK Life Sciences will maintain strict confidentiality and prevent disclosure of all the information and data exchanged under the scope of this MoU for any purpose other than in accordance with this MoU.

Both CBIT(A) and SVAK Life Sciences shall bind their respective personnel who come into possession or knowledge of any confidential information not to disclose the same to third parties without written approval of the disclosing party or use such confidential information for any use other than intended under this agreement or PROJECTS. Further both CBIT(A) and SVAK Life Sciences should put in place adequate and reasonable measures to keep and store confidential information secure so as to prevent any unauthorized use.

CONFIDENTIAL INFORMATION shall mean any proprietary information, data or facts belonging to PARTIES collectively or severally, disclosed by the disclosing party under this agreement or any subsequent agreement, whether in writing, verbal or electronically, irrespective of the medium in which such information is stored, which is marked confidential or with any other words having similar meaning by the disclosing party, or specifically agreed to be kept confidential by the parties, or declared or identified so by the disclosing party before such disclosure or during the discussions. However confidential information should not include any data or information which:

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#### **ARTICLE – VII: AMENDMENTS**

Any amendment and/or addenda to the AGREEMENT should be in writing and signed by the PARTIES hereto and shall only after such execution be deemed to form part of the AGREEMENT and have the effect of modifying the AGREEMENT to the extent required by such amendment or addenda.

#### **ARTICLE – VIII: Compensation, Force Measure, Approval and Dispute Settlement**

##### **a) Compensation**

Neither Party shall be liable to the other for any incidental, indirect, special or consequential damages, including but not limited, to loss of profits, loss of use, loss of revenues or damages to business or reputation arising out of or in connection with this Agreement or any aspect thereof. Neither Party shall be liable to the other by reason of the termination or expiry of this Agreement for compensation or damages on account of the loss of prospective business or on account of expenditures in expectation thereof.

##### **b) Force Majeure**

Any delay or failure in performance by the party to this Agreement, shall not constitute default hereunder to give rise to any claims for damages against said party, if any, to the extent caused by matters beyond the control of said party including but not limited to acts of Nature, Strikes, Lock outs or other concerted acts of workmen, fires, floods, explosions, blockages, embargoes, riots, war (declared or undeclared), rebellion, sabotage, extraordinary severe weather, pandemic situation, civil commotion and criminal acts of third persons. If the project under execution is delayed by such force majeure, then upon the happening of such delay, the parties within 30 days of the happening of such event, shall give notice in writing, requesting for extension of time indicating the period for which extension is desired. Efforts will be made by both parties

to give fair and reasonable extension of time for the projects at their discretion but no monetary allowances shall be made unless it is mutually agreed.

**c) Approval of the MoU**

This Agreement may be signed by authorized officials, whether by original signature or by scanned signature due to the current situation (provided the pdf document is accompanied with official email), signature/approval over official email, with the same effect as if the signature to any counterpart was an original signature upon the same instrument.

**d) Dispute and Settlement**

i) In case of any dispute (s), steps shall be taken by the parties to the MOU to settle the same through amicable negotiations. In case, dispute is not settled in negotiations, it shall be referred to Conciliator appointed by the designated official as per the bye law of CBIT(A), Hyderabad to arrive at a settlement.

In case dispute is not settled in conciliation proceedings, the same shall be referred to Arbitration for resolution of the dispute under Arbitration and conciliation Act 1996. The arbitration proceeding shall be conducted as per provisions of the Arbitration and Conciliation Act, 1996. The dispute shall be referred for arbitration to sole arbitrator to be appointed by the designated official (s) as per the bye law of CBIT(A) – Hyderabad. The award of the sole arbitrator shall be final and binding on both the parties. The venue of the Arbitration shall be at Hyderabad in India. The Award to be given by the Arbitration shall be a speaking award.

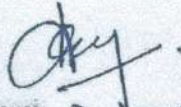
**ii) Applicable Laws and Jurisdiction of Courts**

Indian laws both substantive and procedural, for the time being in force, including modifications thereto, shall govern the MOU including the arbitral proceedings. The competent Courts at Hyderabad in the State of Telangana - India shall have sole jurisdiction. All questions, disputes, differences arising under, out of or in connection

with this MOU shall be to the exclusive jurisdiction of Hyderabad courts in the State of Telangana.

For  
SVAK Life Sciences

For  
Chaitanya Bharathi Institute of Technology  
Hyderabad

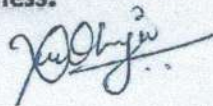
By   
Name: Dr. M. Naveen,

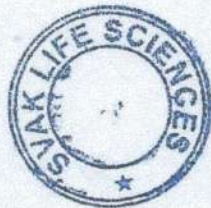
Director/.....

**SVAK LIFE SCIENCES**

Plot # 92B, Road #8, ALEAP Industrial Estate  
Near Pragathi Nagar, Gajularamaram  
Hyderabad Telangana-500 090

Witness:



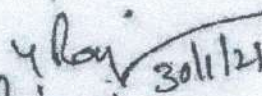


By   
Name Dr. G. P. Saradhi Varma

Principal Principal

Chaitanya Bharathi Institute of Technology  
(Autonomous)  
Gandipet, Hyderabad-500 075.

Witness:

  
Dr. Y. Rajani  
Ho D, Biotech Dept  
CBIT, Gandipet

HEAD  
Dept. of Bio-Technology  
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## SYNTHESIS OF QUINOLINE DERIVATIVES USING MICROWAVE IRRADIATION: THEIR ANTI-CANCER ACTIVITY

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### ABSTRACT

Simple and catalyst free preparation of quinolin-6-ones were synthesized by the reaction of 4-chloro-4H-chromene-3-carbaldehyde and different amines using microwave irradiation. All the reactions were preceded smoothly by yielding good to better yields. The synthesized compounds were active against several cancer cells.

**KEYWORDS:** Quinoline, Amines, Microwave, Anti-Cancer Activity

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### INTRODUCTION

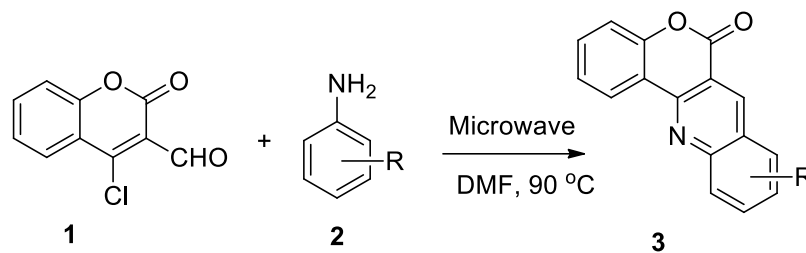
Coumarins are having diverse pharmacological activities in medicinal chemistry. Their core contains many active biological molecules used in the treatment of AIDS and cancer<sup>[13]</sup> Blend of chromene with a quinoline moiety showing great bioactivity against malignancy cell lines.

By knowing the anticancer activity of coumarins and chromenes<sup>[4]</sup>, we want to synthesize quinolin-6-one derivatives by using microwave irradiation which are having anticancer properties.

For the past few years, our team was working on the development of novel methods which are reusable and on the development of pharmaceutical products including impurities.<sup>[5-10]</sup> In this paper we describe the synthesis of quinolin-6-ones utilizing microwave light alongside their cancer activity corresponding to the synthesized molecules.

### RESULTS AND DISCUSSION

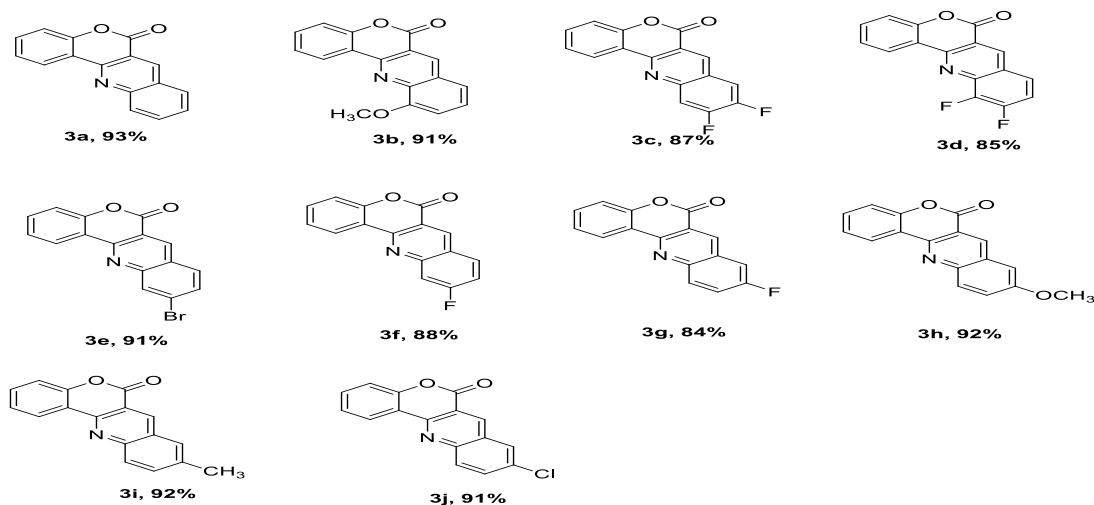
Previously, quinolin-6-ones were prepared from 4-chloro-4H-chromene-3-carbaldehyde using AlCl<sub>3</sub> as a catalyst,<sup>11</sup> Ultrasound<sup>12</sup> or *via* other methods. To overcome the disadvantages, we were keen on fostering another impetus free strategy for the amalgamation of quinolin-6-ones. For this, we developed an microwave assisted synthesis of quinolin-6-ones (**3**) by the reaction of 4-chloro-4H-1-benzopyran-3-carboxaldehyde (**1**) and different anilines (**2**). Primarily, we screened the reactions between aldehyde **1** with aniline (**2a**) using different solvents and found that DMF is the for this process.



**Scheme 1: Preparation of quinolin-6-ones using 4-chloro-4H-chromene-3-carbaldehyde**

After optimizing the reaction condition, then we screened the simplification and extent of this methodology. Thus, different amines having aromatic nature were used with aldehyde in DMF at 90 °C under microwave irradiation yielded corresponding products in good yields (Table 2). Formations of all the products are good and all the substitutions were well tolerated. There are no side product formations in the reaction. All the prepared compounds were confirmed by analytical methods.

**Table 1: Synthesis of quinolin-6-ones (3) from 1 under Microwave**



<sup>a</sup>All the reactions were done by reacting **1** (1.0 mmol) and **2** (1.0mmol) under microwave

<sup>b</sup>Isolated yield.

### Biology

All the synthesized compounds were screened against cancer activity using MTT assay and IC<sub>50</sub> values of the compounds are reported in Table 1. In all the compounds **3c**, **3d**, **3e**, **3i**, and **3j** (IC<sub>50</sub> < 40 μM, Table 1) are found most active.

Table 2: Anticancer Activity of Compounds 3

Compound	IC <sub>50</sub> ( $\mu$ M) <sup>a</sup>			
	K562	Colo-205	MDA-MB 231	IMR32
3a	44	28	22	38
3b	36	34	36	48
3c	33	13	28	35
3d	26	32	32	39
3e	21	28	22	33
3f	39	31	49	48
3g	47	22	21	49
3h	36	48	29	46
3i	20	27	15	35
3j	30	15	23	32
Harmine	44	45	53	67

<sup>a</sup>IC<sub>50</sub> represent the concentration of compound that causes a 50% growth inhibition to untreated cells using the MTT assay.

## CONCLUSIONS

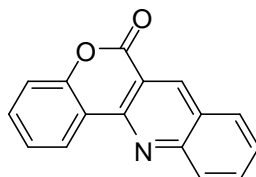
In conclusion, quinolin-6-ones was synthesized by the reaction of 4-chloro-4H-chromene-3-carbaldehyde with various aromatic amines *via* Microwave irradiation. All synthesized compounds were characterized and screened against various cancer cell lines and found active.

## Experimental Section

**General procedure for the preparation of quinolin-6-ones (3):** A solution of 4-chloro-4H-1-benzopyran-3-carboxaldehyde (1 mmol.) aromatic amine (1 mmol.) in DMF (10 ml) were kept in a 10 mL reaction vial. The reaction vial was kept under Microwave irradiation. After completion, the reaction was evaporated. The crude compound was purified from EtOH to afford the required product.

## Spectral data of few Synthesized Compounds

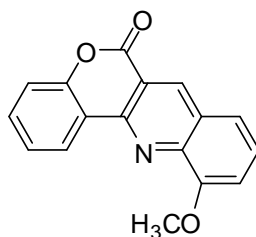
### 1. Compound (3a)



colorless solid; <sup>1</sup>H NMR (500 MHz, Dimethylsulphoxide-*d*<sub>6</sub>):  $\delta$  ppm 9.35 (1H, s), 8.68 (1H, dd), 8.33 (1H, d), 8.22 (1H, d), 8.04-8.06 (1H, m), 7.67-7.78 (2H, m), 7.48-7.52 (2H, m); <sup>13</sup>C NMR (125 MHz, Dimethylsulphoxide-*d*<sub>6</sub>):  $\delta$  161.2, 153.6, 151.3, 148.9, 140.9, 133.9, 132.8, 131.0, 129.6, 127.9, 127.5, 125.5, 124.9, 120.1, 118.1, 115.9; IR (cm<sup>-1</sup>): 3068, 2932, 1748, 1600, 1472, 1189; Mass: m/z 248.2 (M<sup>+</sup>).

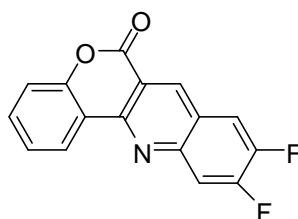


## 2. Compound(3b)



colorless solid;  $^1\text{H NMR}$  (500 MHz, Dimethylsulphoxide  $-d_6$ ):  $\delta$  ppm 9.18 (1H, s), 8.84 (1H, dd), 7.58-7.64 (3H, m), 7.38-7.45 (2H, m), 7.28 (1H, d), 4.18 (3H, s);  $^{13}\text{CNMR}$  (125 MHz, Dimethylsulphoxide  $-d_6$ ):  $\delta$  ppm 161.1, 152.8, 152.2, 150.1, 135.9, 128.9, 128.4, 126.6, 127.8, 126.8, 125.3, 123.0, 119.1, 115.1, 113.1, 57.3; IR ( $\text{cm}^{-1}$ ): 3058, 2842, 1741, 1610, 1375, 1188, 764; Mass:  $m/z$  278.3 ( $\text{M}^+$ ).

## 3. Compound(3c)



colorless solid;  $^1\text{H NMR}$  (500 MHz, Dimethylsulphoxide  $-d_6$ ):  $\delta$  ppm 9.26 (1H, s), 8.78 (1H, dd), 7.84-7.88 (1H, m), 7.64-7.68 (1H, m), 7.41-7.58 (3H, m);  $^{13}\text{CNMR}$  (500 MHz, Dimethylsulphoxide  $-d_6$ ):  $\delta$  ppm 161.1, 153.2, 151.2, 141.4, 140.8, 133.4, 126.2, 125.4, 119.6, 118.4, 116.4, 116.4, 115.2, 115.1, 114.7, 114.4; IR ( $\text{cm}^{-1}$ ): 3068, 2935, 1738, 1609, 1469, 1178; Mass:  $m/z$  284.2 ( $\text{M}^+$ ).

## ACKNOWLEDGEMENTS

All the authors are thankful to their respective institutions for the support to conduct the research.

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# MEMORANDUM OF UNDERSTANDING

BETWEEN



*Green Waves Recyclers*

(A Unit of Green Waves Environmental Solutions)  
Near Studio, Mindhi Village, B.H.PV(PO),  
Gajuwaka, Visakhapatnam-530012, Andhra Pradesh

**Green Waves Environmental Solutions, Visakhapatnam,  
Andhra Pradesh – 530026**

AND



CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)  
Affiliated to Osmania University

**Chaitanya Bharathi Institute of Technology (A),  
Gandipet, Hyderabad - 500075**

**TO PROMOTE**

**ACADEMIC AND RESEARCH CO-OPERATION**

# **MEMORANDUM OF UNDERSTANDING**

## **TO PROMOTE ACADEMIC AND RESEARCH**

### **CO-OPERATION**

This Memorandum of Understanding entered into on the \_\_\_\_ day of \_\_\_\_\_ between **Green Waves Environmental Solutions**, 43/1, Mindhi Village, Gajuwaka, Visakhapatnam, Andhra Pradesh-530026, hereinafter referred to as 'GWES', which expression unless repugnant to the context or the meaning thereof, shall include its permitted assigns and successors, of the one part,

**and**

Chaitanya Bharathi Institute of Technology (A), Gandipet, Hyderabad, (herein after referred to as **CBIT**, a self-financed autonomous private institute, through **PRINCIPAL**, **CBIT (A)**, of the another part desiring to promote academic and research cooperation between the two institutes.

#### **WHEREAS:**

##### **GWES**

Green Waves Environmental Solutions (GWES) is Andhra Pradesh first authorized unit (given by Andhra Pradesh Pollution Control Board) for E-waste collection and handling unit. The primary aim of Zero Waste concept is to reduce waste sent to landfill area and there by promoting a healthy environment. GWES collects the electronic waste from residential, Corporate, Government, SMEs, Educational Institutions, Retailers, Individuals, commercial and industrial areas of Andhra Pradesh. It is segregated and sorted to promote zero waste management which includes recycle, upcycle of E-waste, plastic and solid waste.

GWES organizes college programs with an aim for Zero Waste. GWES had signed MOU with five colleges in three different cities. Three more colleges/ university will be added to the list in another six months. Through MoU, GWES initiates activities/clubs with students and work on clean up drive, waste collection, waste segregation, certified projects or assignments. It also extends

technical support or practical approach to students which have also lead to self employment programs for students in areas of waste management

**AND**

**CBIT**

CBIT is a premier institute in the country mostly catering to the needs of Telangana and A.P states. The institute started its academic journey during the year 1979 and for over 41 years it has upgraded itself with excellence in the fields of Engineering, Technology, Computers and Management courses, both in U.G and P.G programs. The institute continues to remain top ranked institute in the self-financed category of private colleges of the state. The institute has acquired autonomous status from U.G.C, New Delhi upto the year 2024 and has been accorded permanent affiliation by Osmania University, Hyderabad upto the year 2024.

Today, the institute is proud to be recognized as Host Institute for MSME Business Incubator (Micro, Small, and Medium Enterprises), Govt. of India, New Delhi and final approval under process for as nodal centre for ATAL Community Innovation Centre (ACIC), ATAL innovation mission (AIM) initiative, NITI Ayog, New Delhi. CBIT boasts of highly skilled and multi-talented faculty whose experience and expertise are the asset to guide students for productive results. Laboratory, computing and networking facilities are provided to each and every department to encourage both individual and collaborative research for the execution of both sponsored/consultancy projects.

#### **A. PURPOSE**

##### **GWES – PROPOSED MOU OBJECTIVES:**

**To have long term relationship with CBIT in terms of establishing a start-up in CBIT campus involving faculty and students for academic and research related work.** To organize academic, research, training in the field of mutual interest for both the parties.

##### **i) Internship programmes**

With a view to training students with the skills and knowledge necessary to solve today's global/ regional/ local environmental problems such as waste, CBIT aims to establish internship program

with the organization (GWES) that will further the individual student's education and develop the practical skills he or she will need for his/ her future career. The terms and conditions of the internship will be as per mutual agreement and the Internship Policy laid down by CBIT and GWES.

ii) **Training programmes**

On prior discussion and training programmes between the two parties can be scheduled for enriching and exchange of ideas and knowledge. Payment of travel costs to and from the organization/institution where the programme will be held, is to be borne by the nominating agency.

iii) **Research projects**

With understanding between GWES and CBIT, research projects in the mutually agreed field can be proposed in collaboration with one another. The details of such proposal will be as per the mutual agreement by both the parties (GWES and CBIT).

iv) **Publications and Patents**

All publications in the programmes of co-operation will be co-authored by the concerned Faculty/ students of CBIT, employees of GWES. The Coordination Committee shall review the patentability aspect of the research work and direct whether a patent or a publication is to be made.

GWES and CBIT will be joint holders of the intellectual property Right (IPR)/ Patents flowing out of joint work. The decisions on ownership, licensing, costs, royalties and related issues shall be discussed and made by the coordination committee and their recommendations shall be processed in accordance with the framework of IP guidelines and rules governed by individual party at GWES and CBIT.

These decisions shall be prespecified and detailed in individual project/ activity specific Memorandum of Agreements (MoA) that will follow under this MoU.

**B. CBIT - PROPOSED MOU OBJECTIVES:**

- To disseminate and exchange creative and innovative ideas among students, employees and faculty

- To coordinate and organize different national and international level programmes like conferences / webinars / seminars / workshops / invited lectures to the extent possible.
- To work on collaborative project proposals in areas of mutual interest and submit to various agencies / industries for funding.
- To publish the collaborative research findings in various national and international referred and peer reviewed Journals with mutual consent only.
- To avail or share the facilities of GWES and CBIT, for collaborative research in areas of mutual interest, by the students and faculty of CBIT and by employees of GWES, with prior approval and agreement from concerned officials from both parties.
- To mutually collaborate and offer skill development programmes, certification courses and training programmes for various personnel of academic, industrial and research institutes of private and public sector organizations concerned officials from both parties.

#### **Confidentiality**

During the tenure of the MoU both CBIT(A) and GWES will maintain strict confidentiality and prevent disclosure of all the information and data exchanged under the scope of this MoU for any purpose other than in accordance with this MoU.

Both CBIT (A) and GWES shall bind their respective personnel who come into possession or knowledge of any confidential information not to disclose the same to third parties without written approval of the disclosing party or use such confidential information for any use other than intended under this agreement or PROJECTS. Further both CBIT (A) and GWES should put in place adequate and reasonable measures to keep and store confidential information secure so as to prevent any unauthorized use.

CONFIDENTIAL INFORMATION shall mean any proprietary information, data or facts belonging to PARTIES collectively or severally, disclosed by the disclosing party under this agreement or any subsequent agreement, whether in writing, verbal or electronically, irrespective of the medium in which such information is stored, which is marked confidential or with any other words having similar meaning by the disclosing party, or specifically agreed to be kept confidential by the parties, or declared or identified so by the disclosing party before such disclosure or during the discussions.



However confidential information should not include any data or information which:

- (a) is or becomes publicly available through no fault of the receiving party,
- (b) is already in the rightful possession of the receiving party prior to its receipt of such data or information;
- (c) is independently developed by the receiving party without reference to the confidential information of the disclosing party
- (d) is rightfully obtained by the receiving party from a third party or is in the public domain
- (e) is disclosed with the written consent of the party whose information it is, or
- (f) is disclosed pursuant to court order or other legal compulsion, after providing prior notice to the disclosing party.

#### **C. Publication of results**

The publication of research results gained by the student/ faculty/ employee over the period of his/her research is to take place only after consultation with GWES and CBIT.

#### **D. Period of validity of the Memorandum of Understanding**

This Memorandum of Understanding is valid for **Three years** effective from the date that it is signing is concluded by representatives of GWES and CBIT. In case any project is under execution, both parties agree that the activities will be completed even though the term of the agreement is over.

#### **E. Co-ordination Committee**

The following will constitute the Coordination Committee to monitor and review the collaborative programme between the two parties:

- a) Managing Director, GWES and/or their nominee(s)
- b) Principal, CBIT (A) and/or their nominee(s)
- c) Employees of the concerned section(s) of GWES and HODs/ Faculty from CBIT who are to be invited whenever needed.
- d) Employees of GWES and HODs/ Faculty of CBIT, who are involved as Guides / Supervisors / Co-supervisors for the work involved.

**The Co-ordination Committee shall:**

- \*Review the progress of the identified programmes \*Consider the new research / start-up proposals for joint collaboration and implementation on case to case basis including IPR and financial arrangements.
- \*Consider the addition/deletion of areas of co-operation between the two parties during review.
- \*Consider the continuance of the MoU after three years period.

**F. Termination/renewal of the Memorandum of Understanding**

A period of three months' notice will be provided in the case when either party (GWES or CBIT) who wishes to terminate the agreement established in this Memorandum of Understanding. Any such wish must be expressed in writing. Any decision to renew the agreement must again be agreed upon by both parties, with both parties expressing their desire to continue at least three months prior to the expiration of the period covered by the current Memorandum of Understanding. In case any urgent and important project is under execution, both parties agree that the activities will be completed even though the MoU is terminated based subjected to mutual agreement.

**Compensation, Force Measure, Approval and Dispute Settlement**

**a) Compensation**

Neither Party shall be liable to the other for any incidental, indirect, special or consequential damages, including but not limited, to loss of profits, loss of use, loss of revenues or damages to business or reputation arising out of or in connection with this Agreement or any aspect thereof. Neither Party shall be liable to the other by reason of the termination or expiry of this Agreement for compensation or damages on account of the loss of prospective business or on account of expenditures in expectation thereof.

**b) Force Majeure**

Any delay or failure in performance by the party to this Agreement, shall not constitute default hereunder to give rise to any claims for damages against said party, if any, to the extent caused by matters beyond the control of said party including but not limited to acts of Nature, Strikes, Lock outs or other concerted acts of workmen, fires, floods, explosions, blockages, embargoes, riots, war (declared or undeclared), rebellion, sabotage, extraordinary severe weather, pandemic situation, civil commotion and criminal acts of third persons. If the project under execution is delayed by such force majeure, then upon the happening of such delay, the parties within 30 days of the happening of such event, shall give notice in writing,

requesting for extension of time indicating the period for which extension is desired. Efforts will be made by both parties to give fair and reasonable extension of time for the projects at their discretion but no monetary allowances shall be made unless it is mutually agreed.

**c) Approval of the MoU**

This Agreement may be signed by authorized officials, whether by original signature or by scanned signature due to the current situation (provided the pdf document is accompanied with official email), signature/approval over official email, with the same effect as if the signature to any counterpart was an original signature upon the same instrument.

**d) Dispute and Settlement**

i) In case of any dispute (s), steps shall be taken by the parties to the MOU to settle the same through amicable negotiations. In case, dispute is not settled in negotiations, it shall be referred to Conciliator appointed by the designated official as per the bye law of CBIT(A), Hyderabad to arrive at a settlement.

In case dispute is not settled in conciliation proceedings, the same shall be referred to Arbitration for resolution of the dispute under Arbitration and conciliation Act 1996. The arbitration proceeding shall be conducted as per provisions of the Arbitration and Conciliation Act, 1996. The dispute shall be referred for arbitration to sole arbitrator to be appointed by the designated official (s) as per the bye law of CBIT(A) – Hyderabad. The award of the sole arbitrator shall be final and binding on both the parties. The venue of the Arbitration shall be at Hyderabad in India. The Award to be given by the Arbitration shall be a speaking award.

ii) **Applicable Laws and Jurisdiction of Courts**

Indian laws both substantive and procedural, for the time being in force, including modifications thereto, shall govern the MOU including the arbitral proceedings. The competent Courts at Hyderabad in the State of Telangana - India shall have sole jurisdiction. All questions, disputes, differences arising under, out of or in connection with this MOU shall be to the exclusive jurisdiction of Hyderabad courts in the State of Telangana.

**G. Others**

Additions or amendments to the provisions fixed by this Memorandum of Understanding are possible at any time, subject to consultation and mutual agreement between both the parties (GWES and CBIT).

IN WITNESS WHEREOF, the two parties hereto have caused this MOU to be made in English and executed by their respective duly authorized representatives on the day and the year first above written

( G.P.S.I )  
Authorized Signatory

PRINCIPAL  
CBIT (A), HYDERABAD

For and on behalf of MLCU

( P. Jid Chawla )  
Authorized Signatory

MANAGING DIRECTOR  
GWES, VISAKHAPATNAM

For and on behalf of GWES

Witnesses:

1. \_\_\_\_\_  
(Name & Signature)

2. T. Chawla  
(Name & Signature)

Dated: 7/1/2021

Witnesses:

1. K. Paul Vani  
(Name & Signature)

2. \_\_\_\_\_  
(Name & Signature)

ANDHRA PRADESH FOREST DEPARTMENT

# Sri Venkateswara Zoological Park

Tirupati - Andhra Pradesh

## *Certificate of Appreciation*



This is to certify that Chi *Pithani Alekhya*, Institution:  
*Chaitanya Bharathi Institute of Technology, Hyderabad* has  
participated in *Online Quiz* competition on the eve of *International  
Environment Education Day 2022*



Curator,  
S.V. Zoological Park, Tirupati.

Date: 26.01.2022



ANDHRA PRADESH FOREST DEPARTMENT

# Sri Venkateswara Zoological Park

Tirupati - Andhra Pradesh



## Certificate of Appreciation



This is to certify that Chi *Puttala Allika*, Institution: *Chaitanya Bharathi Institute of Technology, Mehdipatnam*, has participated in *Online Quiz* competition on the eve of *International Environment Education Day 2022*



Curator,  
S.V. Zoological Park, Tirupati.

Date: 26.01.2022



ANDHRA PRADESH FOREST DEPARTMENT

# Sri Venkateswara Zoological Park

Tirupati - Andhra Pradesh

## Certificate of Appreciation



This is to certify that Chi *P.Chitra Bhanu Mahendra* Institution:

*Chaitanya Bharathi Institute of Technology, Hyderabad* has

participated in *Online Quiz* competition on the eve of *International*

*Environment Education Day 2022*



Curator,  
S.V. Zoological Park, Tirupati.

Date: 26.01.2022

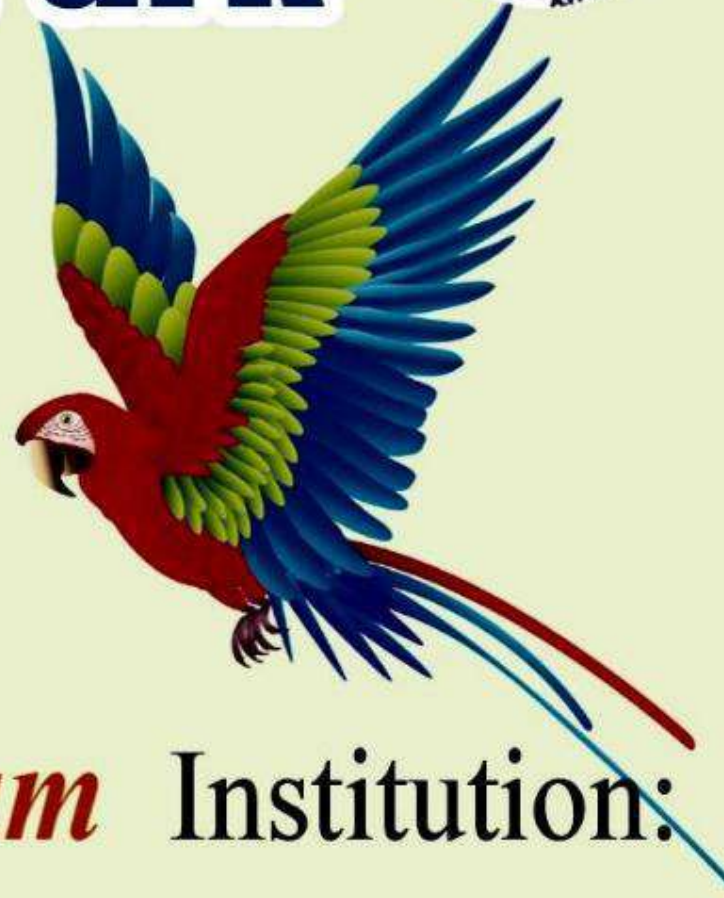


ANDHRA PRADESH FOREST DEPARTMENT

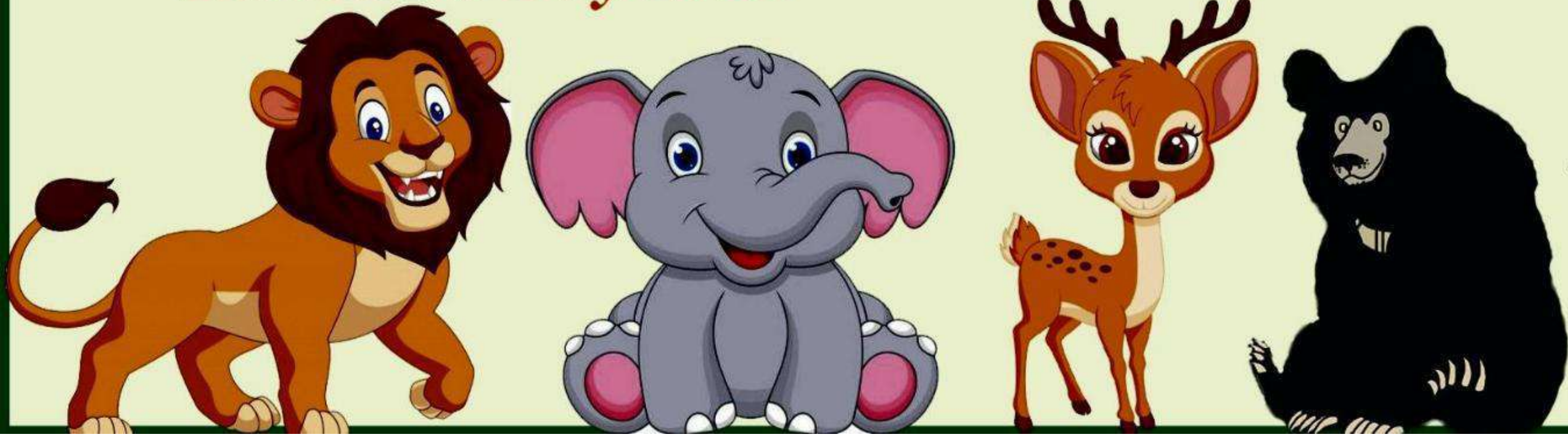
# Sri Venkateswara Zoological Park

Tirupati - Andhra Pradesh

## *Certificate of Appreciation*



This is to certify that Chi *Shaik Mounisha Begum* Institution:  
*Chaitanya Bharathi Institute of Tehnology, Khammam*, has participated  
in *Online Quiz* competition on the eve of *International Environment*  
*Education Day 2022*



Curator,  
S.V. Zoological Park, Tirupati.  
Date: 26.01.2022



ANDHRA PRADESH FOREST DEPARTMENT  
**Sri Venkateswara Zoological Park**  
**Tirupati - Andhra Pradesh**

*Certificate of Appreciation*



This is to certify that Chi *Nishitha Reddy Nomula* Institution:  
*Chaitanya Bharathi Institute of Tehnology, Hyderabad*, has participated  
in *Online Quiz* competition on the eve of *International Environment*  
*Education Day 2022*



Curator,  
S.V. Zoological Park, Tirupati.  
Date: 26.01.2022



ANDHRA PRADESH FOREST DEPARTMENT



# Sri Venkateswara Zoological Park

Tirupati - Andhra Pradesh

## Certificate of Appreciation



This is to certify that Chi *A.Rithvika*, Institution: *Chaitanya Bharathi Institute of Technology, Hyderabad*, has participated in *Online Quiz* competition on the eve of *International Environment Education Day 2022*



Curator,  
S.V. Zoological Park, Tirupati.

Date: 26.01.2022



ANDHRA PRADESH FOREST DEPARTMENT



# Sri Venkateswara Zoological Park

Tirupati - Andhra Pradesh

## Certificate of Appreciation



This is to certify that Chi *Srivardhini Bale*, Institution: *Chaitanya Bharathi Institute of Technology, Hyderabad* has participated in *Online Quiz* competition on the eve of *International Environment Education Day 2022*.



Curator,  
S.V. Zoological Park, Tirupati.

Date: 26.01.2022



ANDHRA PRADESH FOREST DEPARTMENT

**Sri Venkateswara Zoological Park**

**Tirupati - Andhra Pradesh**

*Certificate of Appreciation*



This is to certify that Chi *Amay Ramdas Vanneldas*, Institution:  
*Chaitanya Bharathi Institute of Technology, Hyderabad* has  
participated in *Online Quiz* competition on the eve of *International  
Environment Education Day 2022*.



Curator,  
S.V. Zoological Park, Tirupati.  
Date: 26.01.2022



ANDHRA PRADESH FOREST DEPARTMENT

# Sri Venkateswara Zoological Park

Tirupati - Andhra Pradesh

## Certificate of Appreciation



This is to certify that Chi *K.Chandrakanth Reddy*, Institution:

*Chaithanya Bharathi Institute of Technology, Hyderabad* has participated in *Online Quiz* competition on the eve of *International Environment Education Day 2022*.



Curator,  
S.V. Zoological Park, Tirupati.

Date: 26.01.2022



ANDHRA PRADESH FOREST DEPARTMENT

# Sri Venkateswara Zoological Park

Tirupati - Andhra Pradesh



## *Certificate of Appreciation*



This is to certify that Chi *Shaik Jhubair Ali*, Institution:

*Chaitanya Bharathi Institute of Technology, Hyderabad* has

participated in *Online Quiz* competition on the eve of *International*

*Environment Education Day 2022*



Curator,  
S.V. Zoological Park, Tirupati.

Date: 26.01.2022



ANDHRA PRADESH FOREST DEPARTMENT

# Sri Venkateswara Zoological Park

Tirupati - Andhra Pradesh

## Certificate of Appreciation



This is to certify that Chi *Surya Devara Kalyan*, Institution:  
*Chaitanya Bharathi Institute of Technology, Hyderabad* has  
participated in *Online Quiz* competition on the eve of *International  
Environment Education Day 2022*



Curator,  
S.V. Zoological Park, Tirupati.

Date: 26.01.2022



ANDHRA PRADESH FOREST DEPARTMENT

# Sri Venkateswara Zoological Park

Tirupati - Andhra Pradesh



## *Certificate of Appreciation*



This is to certify that Chi *Saynollagari Nikhil Reddy*, Institution:  
*Chaitanya Bharathi Institute of Technology, Hyderabad* has  
participated in *Online Quiz* competition on the eve of *International  
Environment Education Day 2022*



Curator,  
S.V. Zoological Park, Tirupati.  
Date: 26.01.2022





ANDHRA PRADESH FOREST DEPARTMENT

# Sri Venkateswara Zoological Park

Tirupati - Andhra Pradesh



## *Certificate of Appreciation*



This is to certify that Chi *Gadde Rupesh*, Institution:  
*Chaitanya Bharathi Institute of Technology, Hyderabad* has  
participated in *Online Quiz* competition on the eve of *International  
Environment Education Day 2022*.



Curator,  
S.V. Zoological Park, Tirupati.

Date: 26.01.2022



ANDHRA PRADESH FOREST DEPARTMENT

# Sri Venkateswara Zoological Park

Tirupati - Andhra Pradesh



## *Certificate of Appreciation*



This is to certify that Chi *B.Vishnu Teja*, Institution: *Chaitanya Bharathi Institute of Technology, Hyderabad* has participated in *Online Quiz* competition on the eve of *International Environment Education Day 2022*



Curator,  
S.V. Zoological Park, Tirupati.

Date: 26.01.2022



ANDHRA PRADESH FOREST DEPARTMENT



# Sri Venkateswara Zoological Park

Tirupati - Andhra Pradesh

## *Certificate of Appreciation*



This is to certify that Chi *Gavani Abhinay*, Institution: *Chaitanya Bharathi Institute of Technology, Hyderabad* has participated in *Online Quiz* competition on the eve of *International Environment Education Day 2022*.



Curator,  
S.V. Zoological Park, Tirupati.

Date: 26.01.2022

ANDHRA PRADESH FOREST DEPARTMENT  
**Sri Venkateswara Zoological Park**  
Tirupati - Andhra Pradesh

*Certificate of Appreciation*



This is to certify that Chi *Chippa Manoj*, Institution: *Chaitanya Bharathi Institute of Technology, Hyderabad*, has participated in *Online Quiz* competition on the eve of *International Environment Education Day 2022*



Curator,  
S.V. Zoological Park, Tirupati.  
Date: 26.01.2022



ANDHRA PRADESH FOREST DEPARTMENT

# Sri Venkateswara Zoological Park

Tirupati - Andhra Pradesh



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Environment Education Day 2022*



Curator,  
S.V. Zoological Park, Tirupati.  
Date: 26.01.2022

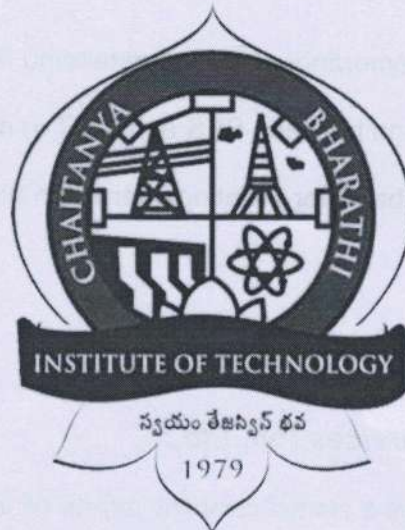
**MEMORANDUM OF UNDERSTANDING**

**BETWEEN**



**BIOSEPHIA ENGINEERING SERVICES PRIVATE LIMITED,  
Plot No. 274, Adarsh Nagar, Gajularamaram, Qutubullapur,  
Hyderabad, Rangareddi, Telangana, India - 500055.**

**AND**



**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A),  
GANDIPET, HYDERABAD, TELANGANA 500075.**

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding made and entered into on the 28<sup>th</sup> day of January 2021 between Biosephia Engineering Services Private Limited, with its registered office at Plot No. 274, Adarsh Nagar, Gajularamaram, Qutubullapur, Hyderabad, Rangareddi, Telangana, India - 500055 and hereinafter called "**BES**" which expression shall include its successors and permitted assignees.

and

**Chaitanya Bharathi Institute of Technology** located in Gandipet, Hyderabad -500075, a self-financed autonomous private institute, through PRINCIPAL, CBIT(A), of another part desiring to promote academic and research co operation between the two parties. And hereinafter called "**CBIT**" which expression shall include its successors and permitted assignees.

#### **OBJECTIVES OF THE MOU**

The objective of this Memorandum of Understanding is:

- a. to promote interaction between BES and CBIT in mutually beneficial areas.
- b. to provide a formal basis for initiating interaction between BES and CBIT.

#### **WHEREAS:**

##### ***Biosephia Engineering Services Pvt. Ltd.:***

Biosephia Engineering Services is a startup company registered in the year 2020 under Companies Act, 2013(18 of 2013) and expanding its services on research & development consultation, commissioning and installation of other equipments which can be utilized in effective treatment of waste generated from various sources. Our mission is to push India forward as a fastest growing

country in sustainability index, by accelerating, providing unsurpassed services and create positive differences in transition to sustainable energy for a greener and better world.

**BES** primarily aims for the awareness on waste segregation and under which it works for waste management and utilizing it in effective way. Through this MOU, BES initiates activities of research and development with students, faculty and researchers in providing the projects, research studies and internships and interaction session with students on innovative ideas and scaling up the start up thoughts and ideas.

***AND WHEREAS:***

***Chaitanya Bharathi Institute of Technology (A):***

CBIT is esteemed as the premier Engineering Institute in the States of Telangana and Andhra Pradesh. The institute started its academic journey during the year 1979 and for over 41 years it has upgraded itself with excellence in the fields of the Engineering, Technology, Computers and Management courses, both in U.G and P.G programs. The institute continues to remain top ranked institute in the self-financed category of private colleges of the state. The institute has acquired autonomous status from U.G.C, New Delhi up to the year 2024 and has been accorded permanent affiliation by Osmania University, Hyderabad up to the year 2024.

Today, the institute is proud to recognize as Host institute for MSME Business Incubator (Micro, Small and Medium enterprises), Govt. of India, New Delhi and as nodal centre for ATAL community innovation center (ACIC), ATAL Innovation mission (AIM) initiative, NITI Ayog, New Delhi. CBIT boasts of highly skilled and multi talented faculty whose experience and expertise are the asset to guide students for productive results. All the research activities are being streamlined to make a mark in 'Make in India' concept of Indian Government. Laboratory, computing and networking facilities are provided to each and every department to encourage both individual collaborative research for the execution of both sponsored /consultancy projects.



## PROPOSED MODES OF COLLABORATION

BES and CBIT propose to collaborate through

- a. Sponsoring student projects/fellowships for B.Tech degree programs at CBIT.
- b. R&D projects, this may be carried out wholly at CBIT or at premises of BES or partly at CBIT and partly at BES.
- c. Explore to have the start-up and request for part funding from Govt. agencies.

### 1. FORMS OF RESEARCH AND DEVELOPMENT PROGRAMS

The form of any of the said Research and Development Program will be subject to a separate Research Agreement entered into by the Parties but may also include the following based on mutual agreement:

- a. **In their own existing facilities** - The performance of research individually by each Party or concurrently by both Parties at their own facilities.
- b. **In a separate research and development facility** - The performance of research by the technical personnel of both Parties working together in the facilities of one Party or in mixed groups at the facilities supported/sponsored by either Party.
- c. **Third parties** - The performance of research by the Parties together with one or more third parties.

### 2. TECHNICAL AREAS OF COLLABORATION

#### A. BES – PROPOSED MOU OBJECTIVES:

To have the long-term relationship with CBIT in terms of establishing a start-up in CBIT campus involving faculty and students for academic and research related work. To organize academic research, training of students of CBIT, this will relate to the field of mutual interest for both the parties.

**i. Internship Program:**

With a view on training students with the skills and knowledge necessary to solve today's global/regional/local environmental problems with their theoretical knowledge, CBIT aims to establish internship programs with the Host Organization (BES) that will further help the individual student's education to develop his/her practical skills. The period and itinerary of the internship to be engaged by the student is to be agreed upon by all three parties (Host organization, The institution (CBIT) and the student) prior to the commencement of the internship. The terms and conditions of the internship will be as per the Internship Policy laid down by CBIT and BES.

**ii. Research Projects:**

With understanding between BES and CBIT, research projects in the concerned field can be proposed in collaboration with one another. The details of such proposal will be as per the agreement by both the parties (BES and CBIT). The following areas are considered for further research activities.

- Development of the technology and advancement in optimizing biogas production by various input ratios.
- The projects that we (BES and CBIT) research on different kinds of organic waste (food waste, yard trimmings, grass, etc;) (i.e); on co-digestion of different ratios.
- Generated biogas can also be converted to electricity and supply power to one or more department buildings, claiming to be self-sustaining blocks/buildings.

**iii. Publications and Patents:**

All publications in the program of cooperation will be co-authored by the concerned faculty/students of CBIT and the employees of BES. The Coordination Committee shall review the patentability aspect of the research work and direct whether a patent or a publication to be made.

BES and CBIT will be joint holders of the Intellectual Property Right (IPR)/Patents flowing out of joint work. The discussion on ownership, licensing costs, royalties and related issues shall be discussed and made by the co ordination committee and their recommendation shall be processed in accordance with the framework of IP guidelines and rules governed by individual's party at BES and CBIT.

These decisions shall be pre-specified and detailed in individual's project/activity specific agreements that will follow under this MOU.

## **B. CBIT – PROPOSED MOU OBJECTIVES:**

- To exchange ideas and information for research, academic and training activities in selected waste management and utilization related programs and possible thrust areas of Science, Engineering, Technology and Management.
- To disseminate and exchange creative and innovative ideas among the students, employees and faculty.
- To coordinate organize different national and international level programs like conferences/webinar/seminar/workshops/invited lectures to the extent possible. The MoU enables technical cooperation but doesn't provide any financial commitment on behalf of CBIT. However the Industry can sponsor such event and both the parties can explore for sponsorship.
- To work on collaborative projects proposals in areas of mutual interest and submit to various agencies/industries/for funding.
- To publish the collaborative research findings in various national and international referred and peer reviewed Journals with mutual consent only.
- To avail or share the facilities of BES and CBIT, for collaborative research in areas of mutual interest, by the students and faculty of CBIT and by the employees of BES, with prior approval and agreement from concerned officials from both parties.
- To mutually collaborate and offer skill development programs, certification courses and training programs for various personnel of academic, industrial and research institutes of private and public sector organizations concerned officials from both parties.
- To provide the alliance with other departments of the institute, provided to collaborate or to share inputs for the research projects and studies as and when required.

## **3. AGREEMENTS SOLEY FOR RESEARCH COLLABORATION**

Each research collaboration undertaken by the parties hereunder shall be initiated by the signing of a separate research agreement between the parties, which will describe in detail:

- a. the nature, scope and schedule of the research collaboration.
- b. the form of the research collaboration.

- c. the estimated cost of the research collaboration together with the amount of funding, if any, to be received from third parties.
- d. the treatment of intellectual property and data rights, including patents, industrial design registration, copyrights and all other proprietary information (including innovations not patented, designs not registered etc.) Which result from the research collaboration or which belong to a party and are used in research collaboration.

#### **4. CONFIDENTIALITY:**

In case of joint research and consultancy projects taken up by BES and CBIT, no party will disclose any investigation to media/any unauthorized person from each party in any form whether electronic/print without mutual consent and approval by coordination committee. The participating members is/are to keep strict confidentiality. Any or all information deemed classified by BES or/and CBIT accessed by the student(s)/faculty/employee(s) over the course of the program are not to be disclosed on any grounds.

Each party agrees that it shall not, at any time, after executing the activities of this MOU, disclose any information in relation to these activities or the affairs of business or method of carrying on the business of the other without consent of both parties.

#### **5. NON-EXCLUSIVITY**

The relationship of the parties under this MOU shall be nonexclusive and both parties, including their affiliates, subsidiaries and divisions, are free to pursue other agreements or collaborations of any kind. However, when entering into a particular research agreement, the participants may agree to limit each party's right to collaborate with others on that subject.

#### **6. TERMS AND TERMINATION**

This MOU, unless extended by mutual written agreement of the parties, shall expire 2 years after the effective date that it is signing is concluded by representatives of both parties (BES and CBIT).

This MOU may be amended or terminated earlier by mutual written agreement of the parties at any time. Either party shall have the right to unilaterally terminate this MOU upon 90 days prior written notice to the other party.

## **7. EXTENSION OF AGREEMENT:**

The MOU may be extended provided the parties agree upon and can provide the necessary resources.

## **8. DISPUTE AND SETTLEMENT:**

- i) In case of any dispute (s), steps shall be taken by the parties to the MOU to settle the same through amicable negotiations. In case, dispute is not settled in negotiations, it shall be referred to Conciliator appointed by the designated official as per the bye law of CBIT(A), Hyderabad to arrive at a settlement.

In case dispute is not settled in conciliation proceedings, the same shall be referred to Arbitration for resolution of the dispute under Arbitration and conciliation Act 1996. The arbitration proceeding shall be conducted as per provisions of the Arbitration and Conciliation Act, 1996. The dispute shall be referred for arbitration to sole arbitrator to be appointed by the designated official (s) as per the bye law of CBIT(A) – Hyderabad. The award of the sole arbitrator shall be final and binding on both the parties. The venue of the Arbitration shall be at Hyderabad in India. The Award to be given by the Arbitration shall be a speaking award.

- ii) Applicable Laws and Jurisdiction of Courts:

Indian laws both substantive and procedural, for the time being in force, including modifications thereto, shall govern the MOU including the arbitral proceedings. The competent Courts at Hyderabad in the State of Telangana - India shall have sole jurisdiction. All questions, disputes, differences arising under, out of or in connection with this MOU shall be to the exclusive jurisdiction of Hyderabad courts in the State of Telangana.

## **9. RELATIONSHIP**

Nothing in this MOU shall be construed to make either BES or CBIT as a partner, an agent or legal representative of the other for any purpose.

## **10. ASSIGNMENT**

It is understood by the parties herein this MOU is based on the professional competence and expertise of each party and hence neither party shall transfer or assign this Agreement, or rights or obligations arising hereunder, either wholly or in part, to any third party which approval shall not be unreasonably withheld.

**FURTHERMORE**, the Parties to this MOU have mutually acknowledged and agreed to the following:

The Parties to this MOU shall work together in a cooperative and coordinated effort, and in such a manner and fashion to bring about the achievement and fulfillment of the goals and objectives of this research and academic development.

- It is not the intent of this MOU to restrict the Parties to this Agreement from their involvement or participation with any other public or private individuals, agencies or organizations. It can also add the furthermore amendments to the provision fixed.
- The Parties to this MOU shall mutually contribute and take part in any and all phases of the planning and development of this collaboration to the fullest extent possible.
- It is not the intent or purpose of this MOU to create any rights, benefits and/or trust responsibilities by or between the parties.
- The MOU shall in no way hold or obligate either Party to supply or transfer funds to maintain and/or sustain the on – going or future planned projects.
- Should there be any need or cause for the reimbursement or the contribution of any funds to or in support of the any research project it shall then be controlled in accordance with mutual governing laws, regulations and/or procedures. Such reimbursement are only possible and processed if there is prior approval from the competent Authorizes.
- In the event that contributed funds should become necessary, any such endeavor shall be outlined in a separate and mutually agreed upon written agreement by the Parties or representatives of the Parties in accordance with current governing laws and regulations, and in no way does this MOU provide such right or authority.
- The Parties to this MOU have the right to individually or jointly terminate their participation in this Agreement provided that advanced written notice is delivered to the other party.
- Upon the signing of this MOU by both Parties, this Agreement shall be in full force and effect.

#### **11. SIGNED IN DUPLICATE**

This MOU is executed in duplicate with each copy being an official version of the Agreement and having equal legal validity.

IN WITNESS WHEREOF, the two parties hereto have caused this MoU to be made in English and executed by their respective duly authorized representatives on the day and the year first above written



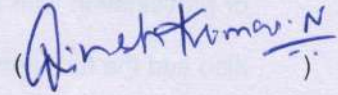
( )

**Authorized Signatory**

**PRINCIPAL**

**CBIT(A), HYDERABAD**

**Name:** Prof. G. P. S. Varma



**Authorized Signatory**

**EXECUTIVE DIRECTOR**

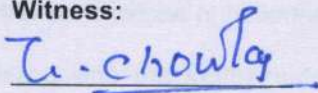
**BES PVT. LTD.**

**Name:** N. Vinesh Kumar, M.S., B.Tech.

For and on behalf of CBIT

**Witness:**

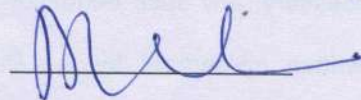
1.



(Name and Signature)

Dr. Umakanta Chaudhary

2.

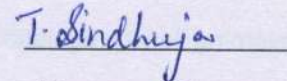


(Name and Signature)

For and on behalf of BES

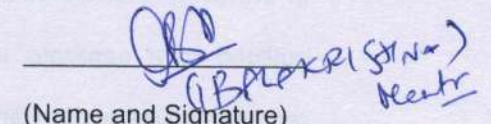
**Witness:**

1.



(Name and Signature)

2.

  
B. Praveen Kumar  
Member

(Name and Signature)

**Dated:** 28/01/2021



GOVERNMENT OF INDIA  
MINISTRY OF CORPORATE AFFAIRS

Central Registration Centre

## Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that BIOSEPHIA ENGINEERING SERVICES PRIVATE LIMITED is incorporated on this Sixth day of November Two thousand twenty under the Companies Act, 2013 (18 of 2013) and that the company is limited by shares.

The Corporate Identity Number of the company is U74999TG2020PTC145667.

The Permanent Account Number (PAN) of the company is **AAJCB4221C** \*

The Tax Deduction and Collection Account Number (TAN) of the company is **HYDB10348C** \*

Given under my hand at Manesar this Ninth day of November Two thousand twenty .

DS MINISTRY OF  
CORPORATE AFFAIRS 6

Digital Signature Certificate:

Mr. Pankaj Srivasta

ASST. REGISTRAR OF COMPANIES

For and on behalf of the Jurisdictional Registrar of Companies

Registrar of Companies

Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on [www.mca.gov.in](http://www.mca.gov.in)

Mailing Address as per record available in Registrar of Companies office:

BIOSEPHIA ENGINEERING SERVICES PRIVATE LIMITED

Plot N.274, Adarsh Nagar, Gajularamaram, Qutubullapur, Hyderabad,


Rangareddi, Telangana, India, 500055



\* as issued by the Income Tax Department



1.



**Biosephia Engineering Services Pvt. Ltd.**  
-Making the world a better place.  
Plot No. 274, Adarsh Nagar, Gajularamaram, Qutubullapur, Hyderabad, Rangareddi, Telangana, India - 500055  
Contact: +91 - 81061 12215, +91 - 99590 91338; Email: [solutions.bes@gmail.com](mailto:solutions.bes@gmail.com),  
Website: [www.biosephia.com](http://www.biosephia.com)

**INTERNSHIP CERTIFICATE**

**To Whom It May Concern**


This is to certify that Ms J.Rajitha student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160120802306 of **Chaitanya Bharathi Institute of Technology** has successfully completed internship in the field of Waste management.

She worked on a preparing business model titled as "Human hair to liquid fertilizer" and field visit to Ravulapally to understand waste management system.

During the period of internship program, she experienced in real time studies on waste management and was found diligent, hardworking and inquisitive.

We wish her all success in future endeavor.


*T. Sindhuja*



Thanking you,  
**Managing Director**  
**Sindhuja Talla**  
**Biosephia Engineering Services Private Limited.**

Page 1 / 1

2.



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Website: [www.biosephia.com](http://www.biosephia.com)

**INTERNSHIP CERTIFICATE**

**To Whom It May Concern**


This is to certify that Ms G.Indiramani student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160120802006 of **Chaitanya Bharathi Institute of Technology** has successfully completed internship in the field of Waste management.

She worked on a preparing business model titled as "Plastic waste to product" and field visit to Ravulapally to understand waste management system.

During the period of internship program, she experienced in real time studies on waste management and was found diligent, hardworking and inquisitive.

We wish him all success in future endeavor.

*T. Sindhuja*



**Thanking you**

**Managing Director**  
**Sindhuja Talla**  
**Biosephia Engineering Services Private Limited.**

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3.

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Website: [www.biosephia.com](http://www.biosephia.com)

**INTERNSHIP CERTIFICATE**

**To Whom It May Concern**


This is to certify that Mr Ch.Prakash student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160120802304 of **Chaitanya Bharathi Institute of Technology** has successfully completed internship in the field of Waste management.

He worked on a preparing business model titled as "Converting agricultural waste into bio-fuels" and field visit to Ravulapally to understand waste management system.

During the period of internship program, he experienced in real time studies on waste management and was found diligent, hardworking and inquisitive.

We wish him all success in future endeavor.

*T. Sindhuja*




**Thanking you,**

**Managing Director**  
**Sindhuja Talla**  
**Biosephia Engineering Services Private Limited.**

Page 1 / 1

4.

 **Biosephia Engineering Services Pvt. Ltd.**  
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Plot No. 274, Adarsh Nagar, Gajularamaram, Qutubullapur, Hyderabad, Rangareddi, Telangana, India - 500055  
Contact: +91 - 81061 12215, +91 - 99590 91338; Email: [solutions.bes@gmail.com](mailto:solutions.bes@gmail.com),  
Website: [www.biosephia.com](http://www.biosephia.com)

**INTERNSHIP CERTIFICATE**



**To Whom It May Concern**

This is to certify that Mr A.Shashi student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160120802305 of **Chaitanya Bharathi Institute of Technology** has successfully completed internship in the field of Waste management.

He worked on a preparing business model titled as “Converting agricultural waste into bio-fuels” and field visit to Ravulapally to understand waste management system.

During the period of internship program, he experienced in real time studies on waste management and was found diligent, hardworking and inquisitive.

We wish him all success in future endeavor.

**Thanking you,**

**Managing Director**  
**Sindhuja Talla**  
**Biosephia Engineering Services Private Limited.**

Page 1 / 1

5.

 **Biosephia Engineering Services Pvt. Ltd.**  
Plot No. 274, Adarsh Nagar, Gajularamaram, Qutubullapur, Hyderabad, Rangareddi, Telangana, India - 500055  
Contact: +91 - 81061 12215, +91 - 99590 91338; Email: [solutions.bes@gmail.com](mailto:solutions.bes@gmail.com),  
Website: [www.biosephia.com](http://www.biosephia.com) *-Making the world a better place.*

**INTERNSHIP CERTIFICATE**

**To Whom It May Concern**

This is to certify that Mr. **Bhavesh Agarwal** student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160119802022 of **Chaitanya Bharathi Institute of Technology** has successfully completed summer internship in the field of Organic Waste management.

He worked on a project titled as Scope, market analysis and designing of portable biogas plants and decentralized models.


During the period of internship program, He experienced in real time studies on waste management and conducted experiments and was found diligent, hardworking and inquisitive.

We wish him all success in future endeavor.

Thanking you,  
  
*T. Sindhuja*  
Managing Director  
Sindhuja Talla  
Biosephia Engineering Services Private Limited.

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6.



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Contact: +91 - 81061 12215, +91 - 99590 91338; Email: [solutions.bes@gmail.com](mailto:solutions.bes@gmail.com),  
Website: [www.biosephia.com](http://www.biosephia.com)

**INTERNSHIP CERTIFICATE**

**To Whom It May Concern**

This is to certify that Mr B.Nithesh student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160120802309 of **Chaitanya Bharathi Institute of Technology** has successfully completed internship in the field of Waste management.

He worked on a preparing business model titled as "Human hair to liquid fertilizer" and field visit to Ravulapally to understand waste management system.


During the period of internship program, he experienced in real time studies on waste management and was found diligent, hardworking and inquisitive.

We wish him all success in future endeavor.

*T. Sindhuja*

**Thanking you,**


**Managing Director**  
**Sindhuja Talla**  
**Biosephia Engineering Services Private Limited,**




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Website: [www.biosephia.com](http://www.biosephia.com)



**INTERNSHIP CERTIFICATE**

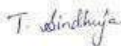
**To Whom It May Concern**


This is to certify that Mr T.Pranay Kumar student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160120802301 of **Chaitanya Bharathi Institute of Technology** has successfully completed internship in the field of Waste management.

He worked on a preparing business model titled as “Plastic waste to product” and field visit to Ravulapally to understand waste management system.


During the period of internship program, he experienced in real time studies on waste management and was found diligent, hardworking and inquisitive.

We wish him all success in future endeavor.




 **Thanking you,**  
**Managing Director**  
**Sindhuja Talla**  
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Website: [www.biosephia.com](http://www.biosephia.com)

**INTERNSHIP CERTIFICATE**

**To Whom It May Concern**


This is to certify that Mr S.Kalyan Sai student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160120802032 of **Chaitanya Bharathi Institute of Technology** has successfully completed internship in the field of Waste management.

He worked on a preparing business model titled as “Banana waste to paper product” and field visit to Ravulapally to understand waste management system.

During the period of internship program, he experienced in real time studies on waste management and was found diligent, hardworking and inquisitive.

We wish him all success in future endeavor.

*T. Sindhuja*


 **Thanking you,**

**Managing Director**  
**Sindhuja Talla**  
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Website: [www.biosephia.com](http://www.biosephia.com)

**INTERNSHIP CERTIFICATE**

**To Whom It May Concern**

This is to certify that Mr MSV.Krishna student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160120802040 of **Chaitanya Bharathi Institute of Technology** has successfully completed internship in the field of Waste management.

He worked on a preparing business model titled as “Banana waste to paper product” and field visit to Ravulapally to understand waste management system.

During the period of internship program, he experienced in real time studies on waste management and was found diligent, hardworking and inquisitive.

We wish him all success in future endeavor.

*T. Sindhuja*




**Thanking you,**

**Managing Director**  
**Sindhuja Talla**  
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10.

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Website: [www.biosephia.com](http://www.biosephia.com)

**INTERNSHIP CERTIFICATE**


**To Whom It May Concern**

This is to certify that Mr K.Chandrakanth Reddy student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160120802026 of **Chaitanya Bharathi Institute of Technology** has successfully completed internship in the field of Waste management.

He worked on a preparing business model titled as "Human hair to liquid fertilizer" and field visit to Ravulapally to understand waste management system.

During the period of internship program, He experienced in real time studies on waste management and was found diligent, hardworking and inquisitive.


We wish him all success in future endeavor.

*T. Sindhuja*  


**Thanking you,**  
**Managing Director**  
**Sindhuja Talla**  
**Biosephia Engineering Services Private Limited,**

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11.

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Website: [www.biosephia.com](http://www.biosephia.com)

**INTERNSHIP CERTIFICATE**

**To Whom It May Concern**

This is to certify that Mr Udesb Salver student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160120802046 of **Chaitanya Bharathi Institute of Technology** has successfully completed internship in the field of Waste management.

He worked on a preparing business model titled as "Plastic waste to product" and field visit to Ravulapally to understand waste management system.

During the period of internship program, he experienced in real time studies on waste management and was found diligent, hardworking and inquisitive.

We wish him all success in future endeavor.

*T. Sindhuja*

**Thanking You,**

**Managing Director**  
**Sindhuja Talla**  
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12.



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Website: [www.biosephia.com](http://www.biosephia.com)

### INTERNSHIP CERTIFICATE

To Whom It May Concern

This is to certify that Mr. **Chirag Jain Godha** student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160119802023 of **Chaitanya Bharathi Institute of Technology** has successfully completed summer internship in the field of Organic Waste management.

He worked on a project titled as Scope, market analysis and designing of portable biogas plants and decentralized models.

During the period of internship program, He experienced in real time studies on waste management and conducted experiments and was found diligent, hardworking and inquisitive.

We wish him all success in future endeavor.

Thanking you,

Managing Director  
Sindhuja Talla

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Website: [www.biosephia.com](http://www.biosephia.com)

### INTERNSHIP CERTIFICATE

To Whom It May Concern

This is to certify that Ms P.Alekhya student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160120802001 of **Chaitanya Bharathi Institute of Technology** has successfully completed internship in the field of Waste management.

She worked on a preparing business model titled as "Banana waste to paper product" and field visit to Ravulapally to understand waste management system.

During the period of internship program, she experienced in real time studies on waste management and was found diligent, hardworking and inquisitive.

We wish her all success in future endeavor.

*T. Sindhuja*



Thanking you,

Managing Director  
Sindhuja Talla  
Biosephia Engineering Services Private Limited.

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Website: [www.biosephia.com](http://www.biosephia.com)

### INTERNSHIP CERTIFICATE

To Whom It May Concern

This is to certify that Mr A.Anil student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160120802022 of **Chaitanya Bharathi Institute of Technology** has successfully completed internship in the field of Waste management.

He worked on a preparing business model titled as "Human hair to liquid fertilizer" and field visit to Ravulapally to understand waste management system.

During the period of internship program, he experienced in real time studies on waste management and was found diligent, hardworking and inquisitive.

We wish him all success in future endeavor.

*T. Sindhuja*



Thanking you,

Managing Director  
Sindhuja Talla

Biosephia Engineering Services Private Limited,

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Website: [www.biosephia.com](http://www.biosephia.com)

Open with Google Docs

## INTERNSHIP CERTIFICATE

**To Whom It May Concern**


This is to certify that Mr C.Dhanush student of B.Tech (Chemical Engineering) 3<sup>rd</sup> Year bearing ID 160120802027 of **Chaitanya Bharathi Institute of Technology** has successfully completed internship in the field of Waste management.

He worked on a preparing business model titled as "Banana waste to paper product" and field visit to Ravulapally to understand waste management system.

During the period of internship program, he experienced in real time studies on waste management and was found diligent, hardworking and inquisitive.

We wish him all success in future endeavor.

*T. Sindhuja*



**Thanking you,**

**Managing Director**  
**Sindhuja Talla**  
**Biosephia Engineering Services Private Limited.**

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**MEMORANDUM OF UNDERSTANDING**



&



**Gati Intellect Systems Ltd**  
**Hyderabad**



THIS AGREEMENT MADE AND ENTERED INTO ON 30<sup>th</sup> DAY OF DEC 2021  
BETWEEN:

**Chaitanya Bharathi Institute of Technology(A)** an Autonomous Institution, having its registered office at Gandipet, CBIT P.O, Hyderabad-500075, Telangana represented by its **Principal, Prof. P. Ravinder Reddy**. (Hereinafter referred to as "**CBIT**" which expressions shall include its representatives, successors, partners, incubates, subsidiaries, joint ventures and assignees) on the one part

AND

**Gati Intellect LTD**, (Logistic, SCM& Leadership domain training and staffing solutions) a company registered in India under the Indian Companies Act 2013 in year 2015 and having its registered office at Plot 20; Survey no 12 Kothaguda Kondapur Hyderabad-500084 represented by **Capt. Yogesh Kundra, President** (Hereinafter referred to as "**GATI/ASSOCIATE**" which expression shall where the contest so admits include its successors and permitted assigns) of the other part.

The CBIT and ASSOCIATE are hereinafter jointly referred to as 'PARTIES' and individually as 'PARTY')

The agreement is operated through the Career Development/Training Dept. of CBIT and the Training Department of The ASSOCIATE- Gati Intellect Systems Ltd part of Aavaan Group for Corporate Academia Tie-up. This proposal will be started at Hyderabad initially, which can be emulated at other centers under mutual agreement.

#### WHEREAS

CBIT, established in the Year 1979, esteemed as the Premier Engineering Institute in the States of Telangana and Andhra Pradesh, was promoted



with an objective to facilitate the Best Engineering and Management Education to the Students and contribute towards meeting the need of Skilled and Technically conversant Engineers and Management Professionals, for the Country that embarked on an Economic Growth Plan. In its Four Decades of existence, all the Stake Holders of the Institute, relentlessly endeavored to position CBIT as an Institution that is a Leader and an Innovator in the Ecosystem of Engineering Higher Education and Management. With the Students being the singular Objective, the Institute has established excellent Infrastructure such as State-of - the Art Laboratories, spacious Library with Printed and Digital Collection of Books and Journals, Sports, Hostel, and other Infrastructure for Research, Innovation, Incubation, Entrepreneurship, Extra and Co-Curricular Engagements with a total Built-up Area of about 57,714 Sq. Mts., in the serene Ambience of 50 Acres to inspire, encourage and pursue Academics. In its relentless strive for Academic excellence, CBIT has scaled great heights both Nationally and Internationally in Industry and Global Universities. CBIT is having faculties with expertise in the area of Electrical, Mechanical, ECE, Bio-Tech, Chemical, CSE, IT and other emerging technologies areas, whose services can be availed by MSME Industries in Hyderabad to develop new products/process and software required by the customers and the society. Ministry of MSME, GOI, has approved MSME Incubation Centre at CBIT to conduct various Programs. The services of Experts available with CBIT can be availed by THE ASSOCIATE, to develop new products/process and software required for the customers and the society.

A. The Second PARTY is a Logistic and supply chain staffing and Training Company, having immense experience in the field of Logistic and supply chain management including transportation, warehousing, e-commerce delivery & Leadership with business associates across globe.



B. Both the PARTIES believe that collaboration and co-operation between themselves will promote more effective use of each of their resources and provide each of them with enhanced opportunities.

C. The PARTIES intend to co-operate and focus their efforts on cooperation through Skill based training, Education, Seminars and Research within the area of Logistic, Supply Chain and Leadership/Communication Management for in-house and other business associates or third parties.

D. Both PARTIES, being legal entities in themselves, desire to sign this MoU for advancing their mutual interests.

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES SET FORTH IN THE MEMORANDUM OF UNDERSTANDING, THE PARTIES HERE TO AGREE AS FOLLOWS:**

**PART I**

1. **CO-OPERATION**

1.1 Both PARTIES are united by common interests and objectives, and they shall establish channels of communication and co-operation that will promote and advance their respective operations within their organizations and their respective wings.

1.2 The PARTIES shall keep each other informed of potential opportunities and shall share all information that may be relevant to secure additional opportunities for one another.

1.3 Both the PARTIES co-operation will facilitate effective utilization of the intellectual capabilities, providing significant inputs in developing suitable teaching/ training systems, keeping in mind the needs of the



industry, in-house requirement of THE ASSOCIATE, its business associates and any government initiated skill programs.

1.4 The general terms of co-operation shall be governed by this MOU. The PARTIES shall co-operate with each other and shall, as promptly as is reasonably practical, enter into relevant agreements, deeds and documents as may be required to give effect to the actions contemplated in terms of this MoU.

1.5 Along with the said agreements, deeds and documents, this MoU shall represent the entire understanding as to the subject matter here of and shall supersede any prior understanding between the PARTIES on the subject matter hereof.

1.6 The MoU doesn't cover any financial commitment from either side.

## **PART II**

### **2. SCOPE OF THE MOU**

2.1. Both PARTIES believe that close co-operation between the two would be of major benefit to the Logistic and supply chain community to enhance their skills and knowledge.

2.2. **Curriculum Design** : The ASSOCIATE shall give valuable inputs to the Institute in teaching/ training methodology and suitably customize the curriculum so that the candidates fit into the industrial scenario meaningfully. ASSOCIATE and group companies having huge industry learning curve will be in the forefront to identify industry need and input into joint curriculum design.



2.3 **Research and Development** : Both PARTIES agree to carry out the joint research activities including but not restricted to the Field of Logistic capacity building.

2.4 **Faculty Development Programs:** The ASSOCIATE is to assist the faculties of the Institute for imparting training as per the Industrial requirement in the concerned sector.

2.5 **Guest Lectures:** The ASSOCIATE is to extend the necessary support to deliver guest lectures to the students of the Institute in the relevant sector and in-house requirements.

2.6 **Assistance in Accreditation of LSCM Curriculum.**

2.7 The ASSOCIATE can avail the services of the faculties / Experts available at CBIT for development of new product / process / software / programs etc. based on mutual agreement.

2.8 Both PARTIES to obtain all internal approvals, consents, permissions and licenses of whatsoever nature required for offering the educational/ training programs.

### **PART III**

#### **3. INTELLECTUAL PROPERTY**

3.1 Nothing contained in this MoU shall, by express grant, implication, Estoppel or otherwise, create in either PARTY any right, title, interest or license in or to the Intellectual Property (including but not limited to the know-how, inventions, patents, copy rights and designs) of the other PARTY



**PART IV**

4. **VALIDITY**

4.1. This agreement will be valid until it is expressly terminated by either PARTY on mutually agreed terms. Both PARTIES will take effective steps for the implementation of this MoU.

4.2. Both PARTIES may terminate this MoU upon 60 days Calendar days' notice in writing.

4.3. In event of Termination, both PARTIES have to discharge their obligations.

**PART V**

5. **RELATIONSHIP BETWEEN THE PARTIES**

5.1. It is expressly agreed that First PARTY and Second PARTY are acting under this MoU as Independent Contractors, and the relationship established under this MoU shall not be construed as Partnership. Neither PARTY is authorized to use the other PARTY's name in any way, to make any representations or create any obligations or liability, express or implied, on behalf of the other PARTY without the prior written consent of the other PARTY.

5.2. Neither PARTY shall have, nor represent itself as having any authority under the terms of this MoU to make agreement of any kind in the name of or binding upon the other party, to pledge the other PARTY's credit, or to extend credit on behalf of the other PARTY.



**PART VI**

6. **AMENDMENTS**

6.1. Any and all amendments to this MoU shall only be in writing and signed by both the PARTIES.

**PART VII**

7. **ARBITRATION**

7.1. This MoU shall be construed in accordance with and governed by the laws of India subject to the exclusive jurisdiction of the courts of Hyderabad. Any dispute arising out of implementation or interpretation of this MoU shall be settled by mutual discussions and amicable settlement failing which the dispute shall be settled by arbitration proceedings conducted in accordance with the Arbitration and Conciliation Act, 1996. The arbitration shall be conducted by a sole arbitrator appointed mutually by the PARTIES and the venue of such arbitral proceeding shall be in Hyderabad.

**PART VIII**

8. **MARKETING AND PUBLIC RELATIONS**

8.1. Both the PARTIES shall issue a joint Press Release, stating that they have legally entered into this Memorandum of Understanding.

8.2. CBIT shall on its webpage, showcase the ASSOCIATE as its 'Training Partner' exclusively for the said programme.

8.3 The ASSOCIATE shall on its webpage, showcase the CBIT, as its 'college/university partner'.



8.4 **All cost and revenue sharing will be discussed and formalized as an addendum to this MoU.**

8.5 CBIT certification of all programs will follow University norms in terms of rigor, processes and audit to the satisfaction of regulator/ compliance enforcing government institutions. The ASSOCIATE will be provided with all regulatory information for informed decisions.

8.6 Place of trainings can be at CBIT, Online/offline/Hybrid mode, at the place of ASSOCIATE or any associated place or third party clients and arrangements will be discussed as and when the requirement arise.

**PART IX**

9.1. This MoU has **no financial implication** and/or obligation on either of the PARTIES. Any MoU, agree mentor deed signed in furtherance to this memorandum shall be explicitly stated in that particular MoU, agreement or deed signed with the consent of both the PARTIES.

  
Signature:

**On behalf of  
Gati Intellect Ltd.**



  
Signature:

**On behalf of  
CBIT**



Dated 30.12, 2021

Name: **Capt. Yogesh Kundra**

Title: President

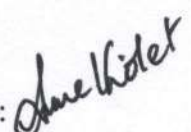
Dated 30.12., 2021

Name: **Prof. P. Ravinder Reddy**


Title: Principal, CBIT



Witness1:  Maj Gen Rajesh Kumar

Witness1:  Gati Intellect

Witness2:  Capt Ravi M. Sams

Witness2: 





**Mr. Niranjan Prabhu, Head Operations, Gati Intellect systems Ltd, Faculty Members, Students during Expert Lecture.**

# Memorandum of Understanding

Between

**Pupilfirst Private Limited**

And

**Chaitanya Bharathi Institute of Technology (A), Hyderabad**

## I. INTRODUCTION

This Memorandum of Understanding ("MOU") is made at CBIT, Hyderabad, on this 12<sup>th</sup> day of August 2021.

Between

**Pupilfirst Private Limited**, bearing CIN U74999KL2017PTC069556, a company incorporated under the Companies Act, 2013 and having its office at International Center for Free and Open Source Software (ICFOSS), Swatantra, Karyavattom, Thiruvananthapuram, Kerala, India — 695581 hereinafter referred to as "Pupilfirst" of the FIRST PART

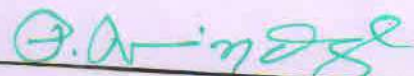
AND

**Chaitanya Bharathi Institute of Technology (A), Hyderabad** having its address at Osman Sagar Rd, Gandipet, Telangana 500075 hereinafter referred to as the "Institute" of the SECOND PART

Pupilfirst and Institute shall hereinafter be collectively referred to as the "Parties" and individually as the "Party".

## WHEREAS

- A. Ministry of Education, Government of India has announced a new Public-Private Partnership Scheme called the **National Educational Alliance for Technology (NEAT)** to bring technology-enabled teaching-learning for better learning outcomes for students. ("NEAT Scheme").
- B. The NEAT Scheme's objective is to make learning more personalized as per the requirements of the learner and thus requires development of technologies in Adaptive Learning to address the diversity of learners. Recognizing that educating the youth is a national effort; Ministry of Education has created a National Technology Alliance with organizations having proven educational technology solutions through a PPP model.



**Principal**

**Chaitanya Bharathi Institute of Technology  
(Autonomous)  
Gandipet, Hyderabad-500 075.**

- C. AICTE would be the implementing agency for the NEAT Scheme and shall ensure that the solutions are freely available to a large number of economically backward students by giving 25% of the seats to socially and economically backward students.
- D. Pupilfirst, a pioneering educational technology organization that has a mission to create tools that can enable teachers to transform classroom education to a learner centered model and achieve near 100% learning outcomes, has been selected by AICTE to be brought under the NEAT Scheme. AICTE and Pupilfirst have accordingly executed a Memorandum of Understanding (hereinafter referred to as the "AICTE-Pupilfirst MOU") in relation to various courses to be implemented in different stages under the NEAT Scheme including the courses identified by AICTE as NEAT2020477\_PROD\_4, NEAT2020477\_PROD\_10 and NEAT2020477\_PROD\_15 (which is described in Schedule 2 of this MOU and hereinafter referred to as the "Courses").
- E. Pursuant to the execution of the AICTE-Pupilfirst MOU, AICTE has launched the 'Leadership in Teaching Excellence' program (the "LITE Program"), as a national program to select and equip 100 institutions (50 higher educational institutions and 50 CBSE schools) with leadership in teaching excellence. Through the LITE Program, AICTE envisions training 50 Computer Science Faculty to introduce modern pupil centered pedagogy, competency based curriculums, continuous and adaptive learning assessments and continuous professional development of faculty at their respective institutions with support from the leadership of the said institutions.
- F. Over the next few years, AICTE intends to bring modern computer engineering knowledge to 24 million children, starting with schools. In accordance with National Educational Policy 2020 ("NEP 2020"), AICTE aims to create new pathways for direct admissions for the top school students from these programs to higher educational institutions who are part of the LITE Program. This shall enable LITE institutions to have access to a pipeline of higher quality of admissions and thereby enable students to move beyond highly paying employment opportunities into more challenging domains of entrepreneurship and research at the institutions themselves.
- G. Based on the application received from the Institute and its satisfactory fulfillment of the required criteria for selection, AICTE has selected the Institute to participate in the LITE Program.
- H. The Parties are now entering into this MOU to set out the proposed collaboration between the Parties with regard to the LITE Program and their respective rights, responsibilities and obligations in relation to implementation of the Courses in the Institute.



Principal  
Chaitanya Bharathi Institute of Technology  
(Autonomous)  
Gandipet, Hyderabad-500 075.

NOW, THEREFORE, THIS MOU WITNESSETH AS FOLLOWS:

### 1.0 Details of the Courses and Continuous Professional Development of Faculty

- 1.1 The Courses (including the Web Development 101, Web Development 201 and Web Development 301) for a total of 13 credits will be offered at the Institute to a minimum of 20 students for Academic Year 2021-22 either as Electives which can be credited towards the student's existing Major Degree or as a 20 Credit Minor Degree when combined with an 7-credit Minor Project or industry internship. The dates for commencement of the Courses at various institutions and universities shall be finalized by AICTE in consultation with the Institute based on the number of institutions and universities that have enrolled for the LITE Program. The date for commencement of the Courses at the Institute shall be intimated to the Institute by Pupilfirst vide a letter with a copy to AICTE issued in the format as set out in Schedule 3 and addressed to the Institute's Principal Coordinator within 30 (thirty) days from signing of this MOU. The Institute shall be required to countersign and return the said letter (with a copy to AICTE) as confirmation of the commencement date within 7 (seven) days from the receipt thereof, failing which AICTE reserves the right to cancel the Institute's participation in the LITE Program.
- 1.2 As a first step, the selected faculty member(s) of the Institute shall undergo the industry-led training required for teaching/imparting the Courses to the students with the help of Pupilfirst and AICTE.
- 1.3 Continuous professional development of faculty shall start from the date indicated in the letter referred to in Clause 1.1 above. Faculty member(s) of the Institute, who have successfully undergone basic orientation and training in creating a classroom experience with pupil centered pedagogy by using competency based curriculums and measuring progress through continuous assessments, shall start teaching the students who have elected to do the said Courses with the assistance and input from Pupilfirst as set out in more detail below.

### 2.0 Joint Responsibility of the Parties

- 2.1 Both the Parties shall announce a coordinator ("Principal Coordinator") for the execution of the MOU who shall be the primary point of contact of the said Party vis-à-vis its obligations and duties for the other Party in connection with the implementation of the LITE Program and the Courses in the Institute.
- 2.2 The Parties acknowledge that as per the AICTE-Pupilfirst MOU, the courses offered by an ed-tech company at institutions shall be offered to students on a voluntary basis and accordingly Pupilfirst and the Institute undertake not to make it compulsory for the students of the Institute to enroll for a particular Course or force students to take a paid Course.



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- 2.3 The New Education Policy 2020 suggests the formation of the National Educational Technology Forum (“NETF”) to provide a platform for the free exchange of ideas on the use of technology to enhance learning, assessment, planning, and administration. Through the technology forum, the policy envisages that technological advancements will be integrated into all levels of education to improve the classroom process, support teachers’ professional development, and enhance educational access for disadvantaged groups.
- 2.4 Institute and Pupilfirst shall provide AICTE student learning outcomes with a special focus on technology transformation for creating personalized learning environments at academic institutions using dynamically updated competency based curricula, adaptive and continuous assessments and development of faculty as inputs for designing policies to achieve NEP 2020 policy goals.

### 3.0 Roles and Responsibilities of Pupilfirst

- 3.1 Industry Coaches: Industry experts who are appointed as Coaches shall be available throughout the duration of the Courses for supporting academic faculty to aim for nearly all students achieving course-learning outcomes.
- 3.2 Pupil-Centered Pedagogy Platform: Provide open-source pupil centered pedagogy platform for student-faculty interaction in relation to the Courses for the duration of the Courses. The term “**Platform**” shall mean the web application hosted by Pupilfirst accessible at [www.pupilfirst.school](http://www.pupilfirst.school) to which enrolled students and faculty of the Courses can sign in.
- 3.3 Competency Based Digital Curriculum: Create and periodically update open-source digital curriculum for the Courses which shall include but not be limited to any and all content, media, displays, graphics, photographs, footage, designs, exhibits, data, reports, or information included as part of the Courses (hereinafter referred to as the “**Curriculum**”) as is required for a Minor Degree in Web Development and ensure dynamic updating of the Curriculum to keep pace with fast evolution of the world wide web.
- 3.4 On-boarding Teaching Assistants (TAs): Encourage peer learning by on-boarding TAs (Students who have already completed the Courses) and facilitate learning for subsequent batches;
- 3.5 Providing information on setting up of lab facilities: When required, to provide a list of equipment required for the Courses that will be set-up at the Institute’s cost and expense.
- 3.6 Support in Identifying & Integrating Faculty Coordinators: This involves selecting only interested faculty members who have an aptitude to receive training in pupil



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centered pedagogy, competency based curricula and continuous personalized assessments techniques for curriculum delivery to students.

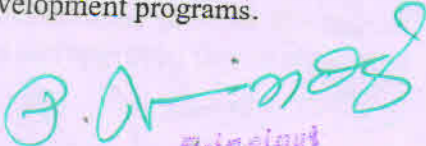
3.7 Conducting Awareness Workshop: Conducting jointly with the Institute or independently online awareness workshops to introduce the Courses and Curriculum to students and explain the potential of the emerging software programming paradigms such as web development using typed functional programming and the opportunities that the knowledge and skills gained while undergoing the Minor Degree in Web Development can bring to empower them, create employability and generally improve their career prospects globally in the present knowledge economy.

### 3.8 Delivering the Course & Ensuring Engagement:

- (i) Assisting the Coach (Industry Expert) in reviewing the relevant faculty/student submissions at the appropriate time and in answering queries on Discord and Community;
- (ii) Assisting the TAs in reviewing milestone submissions of the students and in answering queries on Discord and Community;
- (i) Bringing onboard the faculty coordinators who have completed the course themselves to review milestone submissions of the students in the course;
- (iii) Monitoring the learning and progress of the students along with faculty and AICTE Faculty and Student Development Cells;
- (iv) Conducting timely review calls on progression/status of the Courses between the respective Coaches and faculty coordinator/TAs;
- (v) Conducting Ask me Anything Session by other Industry experts to show real software applications created using the technologies covered under the Curriculum;
- (vi) Periodically communicating with AICTE on the progress of individual faculty and students and progress of LITE Program as a whole;
- (vii) Gather feedback on student submissions at set intervals in order to gain insights on how to create a continuous personalized learning process while ensuring the quality of the projects/products developed/submitted by the students; and
- (viii) Provide faculty with evaluation rubrics and tools for continuous internal assessments and industry experts in software development for giving external marks as per academic requirements and consolidate and share the marks with the Institute at the end of the Courses.

## 4.0 Roles and Responsibilities of the Institute

4.1 The Institute shall support its nominated faculty member to undergo the faculty training in order to effectively learn the techniques of pupil centered pedagogy, competency based curricula and continuous assessments to achieve learning outcomes for nearly all members of the class. The faculty members so selected will undergo the teacher training in each of the Courses over a period of time. The Institute and its leadership all of whom shall be recognized by AICTE as its Brand Ambassador of Change, are as set out in **Schedule 1**. Faculty members of the Institute who successfully complete the training shall also be nationally recognized by AICTE and given priority to various research and faculty development programs.

  
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4.2 One faculty member nominated by the Institute shall also be the Faculty Co-coordinator who shall (i) liaison between Pupilfirst, students and the industry coach selected for the Courses (ii) facilitate communication to/from students, (iii) monitor the grievances raised by the students/learners and (iv) communicate consent and feedback received from the students with AICTE;

4.3 The Institute shall share the requisite information and learning progress updates from time to time and ensure evidence based insights become inputs for continuous improvement of the teaching-learning process that can result in leadership in teaching excellence over a sustained period of time.

4.4 The Institute understands and acknowledges that while it may make it compulsory for all their students to take a particular Course for empowering them to acquire additional skills and create better employability, in such instances, the Institute shall not collect any fee from the Students in any manner towards the Course fee. If any Course is made mandatory for students, the Institute undertakes to bear all the cost of the said Course fee from their own resources. Circular or other modes of communication addressed to the Students/learners for transmission of the above information to the Students will be submitted to the AICTE by the Institute. However, such Courses cannot be complete outsourcing of a program, but add-on courses for better employability.

4.5 The Institute shall undertake to submit to AICTE, the receipt for purchase of Course(s) from Pupilfirst. Institute further undertakes to provide to AICTE, the details of the students enrolled in a particular Course in the specified format provided.

#### **5.0 Commencement, Duration, Amendment and Termination of MOU**

5.1 The MOU shall come in force from the date it is signed by the Parties until and unless any specific date is communicated.

5.2 The MOU shall be in force initially for a period of 2 (two) years or till completion of the first batch of the Courses at the Institute whichever is later, renewable for a further period that is mutually decided by the Parties.

5.3 Any modification or alterations to the MOU shall be first mutually discussed by the Principal Coordinators of the Parties and agreed in writing to become the supplement MOUs.

5.4 In the event either Party wishes to terminate the MOU, it shall do so with prior notice in writing of 30 (thirty) days to the other Parties. In the event AICTE or Pupilfirst terminate the AICTE-Pupilfirst MOU, by default, this MOU will automatically stand terminated at the Institute level too. If the MOU is terminated at the Institute level the detailed information should be shared to AICTE for necessary action.

5.5 Upon termination of the MOU, any Course that commenced prior to the date of termination and which is ongoing shall be completed and approved fees as applicable



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paid to Pupilfirst in connection therewith.

## 6.0 NEAT Course Fee

6.1 AICTE has approved NEAT Courses for students and the Institute shall pay the approved course fee to Pupilfirst of such amount and in such manner as set out in Schedule 2 of this MOU ("NEAT Course Fee") and Clause 6.2 below.

6.2 Pupilfirst shall raise invoices on the Institute for the NEAT Course Fees as set out in Schedule 2 and the Institute shall pay invoices issued in accordance with these terms within 30 (thirty) days of receipt of invoice. Any delay in making payment on undisputed invoices within the required time period as stated above shall attract interest calculated at the rate of SBI's Benchmark prime lending rate per month.

## 7.0 Dispute Resolution

7.1 In case of any dispute between the Parties, the dispute shall be amicably resolved in a meeting of the 2 Principle Coordinators. However, if such an effort fails it shall be referred to the NEAT Apex Committee. If a dispute is not resolved amicably, then it will be resolved through arbitration.

7.2 The arbitration proceedings shall be as per the provisions contained in the Arbitration and Conciliation Act, 1996 (as amended from time to time and in force when the reference is made). The venue of the arbitration proceedings shall be at a neutral location, and the proceedings shall be in English language. If any dispute still remains unresolved, the same shall be adjudicated by the Court of law at New Delhi.

## 8.0 Force Majeure

If at any time, during the continuance of this MOU, the performance in whole or in part, by either Party, of any obligation under this is prevented or delayed, by reason of war, or hostility, acts of the public enemy, civic commotion, sabotage, Act of State or direction from Statutory Authority, explosion, pandemic, epidemic, quarantine restriction, strikes and lockouts, fire, floods, natural calamities or any act of GOD (hereinafter referred to as EVENT), and provided notice of happenings of any such EVENT is given by the affected Party to the others, within 21 (twenty one) calendar days from the date of occurrence thereof, no Party shall, by reason of such event, be entitled to terminate the MOU, nor shall any Party have any such claims for damages against the other, in respect of such non-performance or delay in performance. Provided each of the Party's obligations and rights hereunder shall be resumed as soon as practicable after such EVENT comes to an end or ceases to exist.

## 9.0 Intellectual Property Rights



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- 9.1 The Parties shall use the name, logo, or any other intellectual property rights of the other Party only with prior written or email consent of the Principal Coordinators of each Party.
- 9.2 Where required for co-branding purposes, prior consent shall be obtained from the concerned Party for use of its name; logo or such other intellectual property rights as may be required in connection with the LITE Program.
- 9.3 The Curriculum is available under a Creative Commons Attribution-ShareAlike 4.0 International License. <https://creativecommons.org/licenses/by-sa/4.0/>.
- 9.4 Pupilfirst technology is open-source and all client-side JavaScript is licensed under the "MIT" License. The source code and License details at <https://github.com/pupilfirst/pupilfirst/blob/master/LICENSE>. Pupilfirst grants to the Institute, a limited, revocable license to the Platform for use by its staff, faculty members and other staff participating in the implementation of the LITE Program and the delivery of Courses to the students and for the use of students who are on-boarded for availing the Courses. The said license is limited to the duration of the delivery of the Courses and shall be used solely in connection with the implementation of the LITE Program and delivery of the Courses and for no other purpose. All intellectual property rights in and to the Platform is solely and exclusively owned by Pupilfirst and neither the Institute nor any of their employees, consultants, students, teachers etc. who have access to the Platform during the duration of the delivery of the Courses or in connection with the implementation of the LITE Program, shall have any rights to the Platform or have access to the same after the completion of the Courses/completion of the LITE Program implementation as the case may be. It is however clarified that intellectual property rights in any project/product developed by a faculty member or student shall belong solely to the said student/faculty member and Pupilfirst shall not have any rights to the said intellectual property rights.
- 9.5 Pupilfirst reserves the right to cancel forthwith the license granted to access the Platform to the Institute and/or any of its employees, consultants, students, teachers etc. if it believes that any of the said persons are using the Platform in violation of the terms under which the license to the same is being granted hereunder (including but not limited to those set out in this MOU or such other terms as may be notified by AICTE or Pupilfirst from time to time).

## 10. Exclusive Curriculum for AICTE affiliated Institutions

AICTE affiliated institutions and other educational institutions under the LITE program shall have exclusive access to the Dynamic NEAT Curriculums. This MOU is a non-exclusive collaboration for Institute and Pupilfirst and doesn't restrict either Party from collaborating with other persons/entities to offer course/programs similar to the Courses/LITE Program anywhere.

## 11. Severability

If any provision of this MOU is or becomes invalid, illegal or unenforceable under the laws of any jurisdiction, then such provisions shall (so far as it is invalid or unenforceable) be given no effect and shall be deemed to be not included in this MOU

  
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(Autonomous)  
Pimpri, Maharashtra 411 004

but without invalidating any of the remaining provisions of this MOU, which shall not in any way be affected or impaired. The Parties hereto shall then use all reasonable endeavors to replace the invalid or unenforceable provision with a valid and enforceable and mutually satisfactory substitute provision, achieving as nearly as possible the intended commercial effect of the invalid, illegal or unenforceable provision.

## 12. Liability

Each of the Parties shall defend, indemnify and hold the other Parties harmless from and against any claim, liability, loss or expenses (including reasonable Attorney's fees) arising out of or resulting from the breach of the provisions of this MOU. The liability on a Party for indemnification of the other(s) in case of any loss suffered by breach of the provisions of this MOU shall arise only if so determined by a court of law having jurisdiction or if so awarded by a sole arbitrator or arbitration panel appointed under Clause 7 of this Agreement.

## 13. Waivers and Remedies

No failure or delay by the Parties in exercising any right to remedy provided by law under or pursuant to this MOU shall impair such right or remedy or operate or be construed as a waiver or variation of it or preclude its exercise at any subsequent time and no single or partial exercise of any such right or remedy shall preclude any other or further exercise of it or the exercise of any other right or remedy.

## 14. Costs and Expenses

Each of the Parties shall bear its own legal costs, disbursements charges and expenses incurred in and about the negotiation, preparation and execution of this MOU and any other document executed in connection with this MOU.

## 15. Entire Agreement and Residuary Matters

This MOU read together with the schedules herein and AICTE-Pupilfirst MOU constitutes the entire agreement among the Parties relating to the subject matter hereof. In this regard it is expressly understood by and between the Parties hereto that all the terms and conditions of the AICTE-Pupilfirst MOU are by default applicable to the Parties hereto. Any matter not covered specifically in this MOU or any other additional matter (including any additional programs/courses that the Parties may decide to undertake in future) may be settled by mutual written agreement between the Parties.

## 16. Notices

The Parties agrees that any notices that are required to be given under this MOU shall be given in writing, sent by registered post, return receipt requested, to the principal place of



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(Autonomous)  
Gandipet, Hyderabad-500 075.

business/addresses of the Parties as set forth hereinabove or to the email ids of the Parties as set out below:

Email id of Pupilfirst: [wd@pupilfirst.org](mailto:wd@pupilfirst.org)

Email id of Institute: [principal@cbit.ac.in](mailto:principal@cbit.ac.in)

The Email id of AICTE for forwarding the copies of any communications exchanged between the Parties where required is: [director.fdc@aicte-india.org](mailto:director.fdc@aicte-india.org)

Accepted and Agreed:

*P. Ravinder Reddy*

For Pupilfirst	For Institute
Name: Sanjay Vijayakumar	Name: Dr. P. Ravinder Reddy
Title: Director	Title: Principal
Date:	Date: 12.08.2021
Witness: Suma Sundararajan, Director	Witness: <i>Dr. M. Swamy Day</i> Dr. M. Swamy Day

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**Schedule 1**  
**Details of Institute Leadership and Faculty Selected**

<b>Names and Designations of Institute's Leadership</b>		
<b>Head of Institution</b>	<b>Academic Dean/Head</b>	<b>Faculty</b>
<b>Name:</b> Dr. P. Ravinder Reddy	<b>Name:</b> Dr. M. Swamy Das	<b>Name#1:</b> Smt.S. Durga Devi <b>Name#2:</b> Sri R. Srikanth
<b>Title:</b> Principal, CBIT(A), Hyderabad.	<b>Title:</b> Joint Director-Academics (Informatics)	<b>Title#1:</b> Assistant Professor, Dept of CSE, CBIT(A), Hyd <b>Title#2:</b> Assistant Professor, Dept of CSE, CBIT(A), Hyd


Mr. R. Srikanth, Asst. Prof., CSE Dept. is the Principal Coordinator for AICTE LITE program

**Schedule 2**  
**Details of the Courses & NEAT Course Fee**

<b>Sr. No.</b>	<b>Product NEAT ID</b>	<b>Course Name</b>	<b>AICTE Approved Course Fee Per Student (In Rupees)</b>
1.	NEAT2020477_PROD_10	Web Development 101	—
2.	NEAT2020477_PROD_4	Web Development 201	10,000
3.	NEAT2020477_PROD_15	Web Development 301	10,000
	<b>Total</b>		<b>20,000</b>

**Manner of paying the NEAT Course Fee**

*Online Bank Transfer of the NEAT Course Fee for each Course shall be paid in 2 equal installments subject to Pupilfirst raising invoices for the same - 50% of the NEAT Course Fees for each Course shall be payable on or prior to the commencement date of the said Course and 50% upon completion of the said Course within 7 (seven) days from the last day of the Course.*

  
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## Memorandum of Understanding

between

**Engineering Staff College of India (ESCI)**  
(An Organ of The Institution of Engineers(India)  
Hyderabad, Telangana State, India

&

**Chaitanya Bharathi Institute of Technology (A)**  
CBIT P.O, Kokapet, Gandipet(M), Ranga Reddy Dist.  
Hyderabad-500075, Telangana, India

### **Context:**

The Memorandum of Understanding (MoU) is made on 11<sup>th</sup> day of **November 2021** between Engineering Staff College of India hereinafter referred to as "ESCI" represented by it's authorized officer "Director" and Chaitanya Bharathi Institute of Technology (A) hereinafter referred to as "CBIT(A)" represented by its authorized officer "Principal, CBIT(A)".

ESCI/IEI has vast network of centres spread across India with a credible track record of serving the students, faculties, working professionals, government officials and corporates on various domains has a strong Industry network, international partnerships and vast experience in delivering upskilling and innovation Programmes in latest technologies.

CBIT(A) is having faculties with expertise in the area of Mechanical, ECE, Electrical, Bio-Tech, Chemical, CSE, IT, Civil, MCA and other emerging technologies areas, whose technical services can be availed by other Colleges and MSME Industries in Hyderabad to develop new products/process and software required by the customers and the society. Ministry of MSME, GOI, has approved MSME Incubation Centre at CBIT (A) to conduct various Programs. CBIT(A), Hyderabad also been selected from Telangana by AIM for establishment of Atal Community Innovation Centre (ACIC) at our Campus. ACIC-CBIT Research and Entrepreneurship Foundation has been registered by CBIT as a Special Purpose Vehicle (SPV) under the companies Act., and all the Innovation, Incubation and Enetrpreneurship related activities have been initiated.

This collaboration has a Potential to create huge positive impact at grassroots level. In all the collaborative programmes, there will be a special focus on Women empowerment too.

The parties hereto are desirous of recording the terms and conditions of their agreement in writing.

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NOW THIS MEMORANDUM OF UNDERSTANDING WITNESSED AS UNDER

**Scope: The Scope/ Objectives of the are as follows:**

- Facilitate Accreditation by NBA(National Board of Accreditation) and NAAC(National Assessment and Accreditation Council).
- To develop joint initiatives and perform outreach to increase employment
- Joint Industry Meetups on Emerging Technologies
- Joint Technology Bootcamps and Hackathons
- Hackathon League between colleges across region and corporates
- Certificate programmes for Students & Faculty on Emerging Technologies like 3D Printing, Drones, Rocketry Workshops, Robotics, VLSI designing , Embedded systems, Cybersecurity, Data Analytics, Machine Learning, Artificial Intelligence, Blockchain and IoT and other emerging areas.
- Facilitate Industry, R&D and Incubation Centre Visits
- Mutual Consultation for setting up Innovation Hubs and Incubation centre. Offer setting up of Incubation Centre in association with ESCI under mutual agreement.
- Joint Incubation Facility at respective college/ university to usher Innovation and Entrepreneurship.
- Infrastructure Partner to the Skill Development Programs
- Facilitate Skill Development Programs, Innovation, Design thinking, Entrepreneurship, Industry-Institute Partnership and Incubation Programs.
- Faculty and Student Exchange Programmes
- consulting Services for Quality Question Paper Setting and Review
- Joint Industrial Consulting and Research work
- Facilitate Student Mini Projects and Final Year Projects
- Internship Programs for Students
- Intellectual Property(IP) Facilitation
- Fostering Innovation & Startup Ecosystem within College Campus.
- Facilitate Advanced Pedagogy, Accreditation, Sponsored Research, IPR Programs
- Facilitate Industry-Academia Partnership Programs

A Project committee team consisting of two(2) members each from ESCI and CBIT(A) would have a digital exchange of Information at least every semester to decide, formulate and implement joint programmes in various domains to be chaired by the directors of collaborating partners alternately for a tenure of one year. Terms of partnership and techno-commercial conditions will be decided on project-to-project basis prior to initiation of such knowledge dissemination.

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**A. ABOUT ESCI:**

Engineering Staff College of India (ESCI) is a unique Institution set up in October, 1981 by the premier body of engineers, The Institution of Engineers (India).

ESCI is Autonomous Organ of The Institution of Engineers (India) incorporated with an avowed objective of conducting Continuing Professional Development Programmes, Specific Training Programmes, Research & Development, Consultancy services and PG Diploma Programmes in Engineering, Technology and Management areas.

**B. ABOUT CBIT(A)**

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (CBIT(A)), established in the Year 1979, esteemed as the Premier Engineering Institute in the States of Telangana and Andhra Pradesh, was promoted with an Objective to facilitate the Best Engineering and Management Education to the Students and contribute towards meeting the need of Skilled and Technically conversant Engineers and Management Professionals, for the Country that embarked on an Economic Growth Plan. In its four decades of existence, all the Stake Holders of the Institute, relentlessly endeavored to position CBIT(A) as an Institution that is a Leader and an Innovator in the Ecosystem of Engineering Higher Education and Management. With the Students being the singular Objective, the Institute has established excellent Infrastructure such as State-of – the Art Laboratories, spacious Library with Printed and Digital Collection of Books and Journals, Sports, Hostel, and other Infrastructure for Research, Innovation, Incubation, Entrepreneurship, Extra and Co-Curricular Engagements with a total built-up Area of about 57,714 Sq. Mts., in the serene Ambience of 50 Acres to inspire, encourage and pursue Academics. In its relentless strive for Academic excellence, CBIT(A) has scaled great heights both Nationally and Internationally in Industry and Global Universities

**D. GENERAL TERMS & CONDITIONS:**

- a) This MoU shall be effective from the date of signing of the parties and will remain in force for a period of three (3) years.
- b) This MoU will be reviewed by the partnership committee members from time to time and may be amended with the consent of both the parties and thereafter confirmed in writing.
- c) The parties agree and acknowledge that no other rights are granted except as explicitly stated herein.
- d) Neither party shall transfer or assign its interests, obligations or rights in this agreement without the written consent of the parties, provided that such consent will not be unreasonably withheld.

*[Handwritten signature in green ink]*





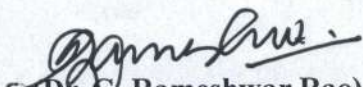
- e) Neither party shall be liable by reason of failure or delay in the performance of its obligation under this MoU, if such failure or delay is caused by the acts of God, Strikes, Lockouts or any other causes beyond its control and without its fault or negligence on mutual agreement.
- f) Any other arrangements or activities or commitments shall be made on mutually agreed terms from time to time.
- g) No amendments to the MoU shall be valid unless executed in writing and signed by both the parties.
- h) Nodal Officer will be nominated from respective university/ college for carrying out activities with respect to Students, Faculties and Non-Teaching Staff.
- i) Financials commitments if any can be decided on mutual agreement before commencement of each activity.

**E. TENURE AND TERMINATION:**

This Agreement shall commence from the date of agreement and shall continue in force for one year and can be extendable to a maximum of three years on mutual agreement at the end of first year.

Either party may terminate this Agreement upon 60 days prior written notice to the other party, which will however be subject to compliance to completion of all commitments made. Notwithstanding any such termination, both parties shall ensure that all activities in progress are completed successfully.

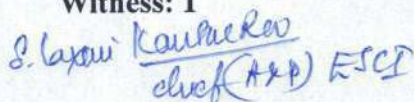
**For and on behalf of  
Engineering Staff College of India  
Hyderabad**

  
(Dr. C. Rameshwar Rao)

**Director**

Director  
Engineering Staff College of India  
Gachibowli, HYDERABAD -500032

**Witness: 1**

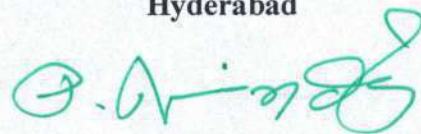
  
S. Lakshmi  
Chief (A&P) ESCI



**Witness: 2**

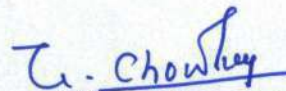
**Prof. VEDULLA SHEKHAR**  
Principal  
SCHOOL OF POST-GRADUATE STUDIES  
Engineering Staff College of India  
Gachibowli, Hyderabad-500 032.

**For and on behalf of  
Chaitanya Bharathi Institute of Technology  
Hyderabad**



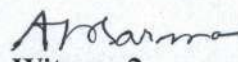
(Dr P. Ravinder Reddy)  
Principal, CBIT(A)





**Witness: 1**

**Director - Incubation & Innovation**  
R&E Hub, CBIT(A)  
Gandipet, Hyderabad-500075



**Witness: 2**

**Director - Research & Development**  
R&E Hub, CBIT(A)  
Gandipet, Hyderabad-500075

**MEMORANDUM OF UNDERSTANDING**

**BETWEEN**



**CHAITANYA BHARATHI INSTITUTE OF  
TECHNOLOGY(A)  
GANDIPET, HYDERABAD**

**AND**

**KAPIL KNOWLEDGE HUB PRIVATE LIMITED  
(KAPIL GURU)**

## MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** ("MOU" also called "Agreement") is entered into from this "Date 20-10-2021" for a period of 3 Years.

**Party 1 - CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, Hyderabad, Telangana-500075**

**AND**

**Party 2 - KAPIL KNOWLEDGE HUB PRIVATE LIMITED (KAPIL GURU) represented herein by its Managing Director Mr. Shaik Zaheeruddin**

### **1. Introduction**

**Party 1 - CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (CBIT(A))**, established in the Year 1979, esteemed as the Premier Engineering Institute in the States of Telangana and Andhra Pradesh, was promoted with an Objective to facilitate the Best Engineering and Management Education to the Students and contribute towards meeting the need of Skilled and Technically conversant Engineers and Management Professionals, for the Country that embarked on an Economic Growth Plan. In its four decades of existence, all the Stake Holders of the Institute, relentlessly endeavored to position CBIT(A) as an Institution that is a Leader and an Innovator in the Ecosystem of Engineering Higher Education and Management. With the Students being the singular Objective, the Institute has established excellent Infrastructure such as State-of – the Art Laboratories, spacious Library with Printed and Digital Collection of Books and Journals, Sports, Hostel, and other Infrastructure for Research, Innovation, Incubation, Entrepreneurship, Extra and Co-Curricular Engagements with a total built-up Area of about 57,714 Sq. Mts., in the serene Ambience of 50 Acres to inspire, encourage and pursue Academics. In its relentless strive for Academic excellence, CBIT(A) has scaled great heights both Nationally and Internationally in Industry and Global Universities.

### **Party 2 –**

**KAPIL KNOWLEDGE HUB PRIVATE LIMITED (KAPIL GURU)**, - the Second Party is engaged in the field of online education / teaching / training, which provides an online platform for trainers & learners, to access each other services / requirements, skill development and assist in providing placement opportunities for students.

### **2. Recitals**

**KAPIL KNOWLEDGE HUB PRIVATE LIMITED** is interested in engaging with CBIT (A) in areas of mutual interest as framework outlined below but not necessarily restricted to those mentioned below.

CBIT(A) is having faculties with expertise in the area of Electrical, Mechanical, ECE, Bio-Tech, Chemical, CSE, IT and other emerging technologies areas, whose services can be availed by MSME Industries in Hyderabad to develop new products/process and software required by the customers and the society. Ministry of MSME, GOI, has approved MSME Incubation Centre at CBIT (A) to conduct various Programs. After studying the strengths and objectives, **KAPIL KNOWLEDGE HUB PRIVATE LIMITED** and **CBIT (A)** agreed that they can share the expertise available at both ends for mutual benefits in the field of education, training, social development and enter in MOU. Based on the discussion held among the faculty Members **CBIT (A)** and **KAPIL KNOWLEDGE HUB PRIVATE LIMITED** certain thematic areas / programmers has been identified for mutual collaboration. The Benefits of Skill Based Education are follows.

- Advanced & practical learning for the budding technocrats of India, through exclusively designed and developed programs by **KAPIL KNOWLEDGE HUB PRIVATE LIMITED INDIA**.
- Participants will get a 360-degree exposure i.e. Theoretical Knowledge, Hands on Experience, Industrial Skills & Career Building opportunities.

It is further agreed that this MOU /agreement is being signed by the parties without any pressure, influence, or any type of compulsion. **CBIT (A)** and **KAPIL KNOWLEDGE HUB PRIVATE LIMITED** propose to collaborate every year to conduct the following programs at CBIT (A) in every year based on mutual interest and discussion.

1. Kapil Guru shall provide free user accounts (on KAPIL GURU website/application) for the students of the First Party.
2. By using these user accounts, students can apply for unlimited job openings at free of cost. Further students can attend unlimited demo lectures at free of cost.
3. Students can attend unlimited free webinars and obtain participation certificate.
4. Students can learn any course/subject/skill by using KAPIL GURU platform, as per applicable terms and conditions and obtain course completion certificates.
5. Industrial Training & Visits: Industry and Institution interaction will provide an insight into the latest developments / requirements of the industries; the Second Party to permit the Faculty and Students of the First Party to visit its group companies and also involve in Industrial Training Programs for the First Party. This will provide confidence & smooth transition for students work. Also the Second party may register on the AICTE internship Portal for the benefit of students.
6. Guest Lectures: Second Party to extend the necessary support to deliver guest lecturers to the students of the First Party on the technology trends and in house requirements.

7. Placement of trained students: second party will actively engage to help the delivery of the training and placement of the students of the first party on the technology trends and in house requirements.
8. There is no financial commitment on either of the parties, to take up any program mention in MoU. If there is any financial consideration, it will be dealt separately.
9. Both Parties to obtain an internal approvals, consents, permissions, and licenses of what so ever nature required.

In consideration of the above recitals and the mutual benefits to be derived hereafter, the parties agree to enter into an Agreement as follows:

#### **ARTICLE – I: Scope of the MoU**

This document outlines a strategic understanding between KAPIL KNOWLEDGE HUB PRIVATE LIMITED and CBIT (A) works together for Skill Based Education. The primary aim of this partnership is to aid in establishing a high- quality people repository in technology and allied fields. This will help CBIT to teach and train their students on strategic and innovation technologies and equip the students, faculty of the CBIT towards attaining skills in cutting-edge technologies in allied areas of engineering & technology.

#### **ARTICLE – II: Scope and Terms of Interactions**

Both CBIT (A) and KAPIL KNOWLEDGE HUB PRIVATE LIMITED shall encourage interactions between both the organizations through the following arrangements:

1. Both CBIT (A) and KAPIL KNOWLEDGE HUB PRIVATE LIMITED will plan to work on Joint development projects of Mutual Interest and also explore for joint working on Govt. funded projects based on mutual agreement.
2. Summer Training Program (On Campus Training Program)
3. Online Training Program
4. Guest Lecture, Expert Lecture
5. Skill Development/awareness Program and Faculty Development Program
6. There will be no restriction on the contents of the project/report/thesis and on publication of results of the thesis, subject to the condition that no Intellectual Property Rights can be secured for any part of the work which will be decided with mutual consent.
7. CBIT should provide the following infrastructure facilities during this training program.
  - The needful infrastructure of class area, manpower and electrical connections for the classroom equipped with all essential necessities.
  - Necessary fabrication lab space & workshop along with tools. Necessary machines for fabrication process.
  - Accommodation, Hospitality and Local Transportation will be provided to all the trainers, experts, speakers and Guests based on mutual discussion.

8. KAPIL KNOWLEDGE HUB PRIVATE LIMITED will provide its social platform for the publicity of CBIT.
9. The program execution will be done with mutual discussion and agreement of both the parties.

#### **ARTICLE-III: Sharing of Facilities**

- a) KAPIL KNOWLEDGE HUB PRIVATE LIMITED shall extend its facilities for CBIT(A) students towards the smooth conduct of Internships, expert lecture and Projects depending on their convenience and availability of time & staff.
- b) KAPIL KNOWLEDGE HUB PRIVATE LIMITED provides access to the library facilities to the members of faculty and students as per the KAPIL KNOWLEDGE HUB PRIVATE LIMITED rules and norms.
- c) KAPIL KNOWLEDGE HUB PRIVATE LIMITED will also share its facilities with CBIT as per KAPIL KNOWLEDGE HUB PRIVATE LIMITED norms.

#### **ARTICLE-IV: Effective Date and duration of the MOU**

- a) This MOU will be effective from the date of its approval by competent authorities at both ends.
- b) The duration of the MoU will be for a period of 3 years from the effective date which may be extended after mutual understanding. However, if any Important combined projects are under execution, both parties agree to complete the work even the MOU is not effective after three years.
- c) During its tenancy, the MOU may be extended or terminated by a prior notice of not less than one month by either party. However, termination of the MOU will not in any manner affect the interests of the students & faculty who have been admitted pursuing a Training/Project under the MOU.
- d) Any clause or article of the MOU may be modified or amended by mutual agreement of KAPIL KNOWLEDGE HUB PRIVATE LIMITED and CBIT(A).

#### **ARTICLE – V: Confidentiality**

During the tenure of the MoU both CBIT(A) and KAPIL KNOWLEDGE HUB PRIVATE LIMITED will maintain strict confidentiality and prevent disclosure of all the information and data exchanged under the scope of this MoU for any purpose other than in accordance with this MoU.

Both CBIT(A) and KAPIL KNOWLEDGE HUB PRIVATE LIMITED shall bind their respective personnel who come into possession or knowledge of any confidential information not to disclose the same to third parties without written approval of the disclosing party or use such confidential information for any use other than intended under this agreement or PROJECTS. Further both CBIT(A) and KAPIL KNOWLEDGE HUB PRIVATE LIMITED should put in place adequate and reasonable measures to keep and store confidential information secure so as to prevent any unauthorized use.

CONFIDENTIAL INFORMATION shall mean any proprietary information, data or facts belonging to PARTIES collectively or severally, disclosed by the disclosing party under this agreement or any subsequent agreement, whether in writing, verbal or electronically, irrespective of the medium in which such information is stored, which is marked confidential or with any other words having similar meaning by the disclosing party, or specifically agreed to be kept confidential by the parties, or declared or identified so by the disclosing party before such disclosure or during the discussions. However confidential information should not include any data or information which:

- (a) is or becomes publicly available through no fault of the receiving party,
- (b) is already in the rightful possession of the receiving party prior to its receipt of such data or information;
- (c) is independently developed by the receiving party without reference to the confidential information of the disclosing party
- (d) is rightfully obtained by the receiving party from a third party or is in the public domain.
- (e) is disclosed with the written consent of the party whose information it is, or
- (f) is disclosed pursuant to court order or other legal compulsion, after providing prior notice to the disclosing party.

#### **ARTICLE – VI: Amendments**

Any amendment and/or addenda to the MOU / AGREEMENT should be in writing and signed by the PARTIES hereto and shall only after such execution be deemed to form part of the MOU / AGREEMENT and have the effect of modifying the MOU / AGREEMENT to the extent required by such amendment or addenda.

#### **ARTICLE – VII: Compensation, Force Measure, Approval and Dispute Settlement**

##### **a) Compensation**

Neither Party shall be liable to the other for any incidental, indirect, special or consequential damages, including but not limited, to loss of profits, loss of use, loss of revenues or damages to business or reputation arising out of or in connection with this Agreement or any aspect thereof. Neither Party shall be liable to the other by reason of the termination or expiry of this Agreement for compensation or damages on account of the loss of prospective business or on account of expenditures in expectation thereof.

##### **b) Force Majeure**

Any delay or failure in performance by the party to this Agreement, shall not constitute default hereunder to give rise to any claims for damages against said party, if any, to the extent caused by matters beyond the control of said party including but not limited to acts of Nature, Strikes, Lock outs or other concerted acts of workmen, fires, floods, explosions, blockages, embargoes, riots, war (declared or undeclared), rebellion, sabotage, extraordinary severe weather, pandemic situation, civil commotion and criminal acts of third persons. If the project under execution is delayed by such force

majeure, then upon the happening of such delay, the parties within 30 days of the happening of such event, shall give notice in writing, requesting for extension of time indicating the period for which extension is desired. Efforts will be made by both parties to give fair and reasonable extension of time for the projects at their discretion but no monetary allowances shall be made unless it is mutually agreed.

**c) Approval of the MoU**

This Agreement may be signed by authorized officials, whether by original signature or by scanned signature due to the current situation (provided the pdf documents accompanied with official email), signature/approval over official email, with the same effect as if the signature to any counterpart was an original signature upon the same instrument.

**Article VIII: INDEMNITY**

Both the parties hereby indemnify and undertake to keep indemnified and protected the other party and their respective officers and employees from or against any claims or actions arising out of or in any way relating to the provision and implementation of the programs as per this MOU.

**Article X: LIMITATION OF LIABILITY**

In any case the liability of whatsoever, of either party to each other or towards any other third party, arising out of this agreement, shall not exceed Rs. 1000/- (Rupees Thousand only).

**Article XI: RELATIONSHIP BETWEEN THE PARTIES**

It is expressly agreed that First Party and Second Party are acting under this MOU as independent contractors, and the relationship established under this MOU shall not be construed as a partnership.

**Article XII: GOVERNING LAW**

Agreement shall be governed by laws of India with Jurisdiction at Hyderabad..

**Article XIII: DISPUTE RESOLUTION**

In case of any dispute arising out of the agreement, in first place, both parties shall put efforts to resolve the same through mutual discussion/negotiation, in case same is not resolved through negotiation, then dispute shall be resolved through Arbitration, proceedings of which shall be subject to The Arbitration and Conciliation Act, 1996 and



same shall be conducted in English and place of Arbitration shall be Hyderabad. Further all disputes shall be subject to the exclusive jurisdiction of Courts of Hyderabad.

**CLAUSE XIV: MARKETING, PROMOTION AND ADVERTISEMENT**

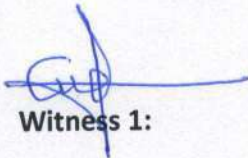
First party and Second Party at its sole discretion, market, promote, advertise, and inform its Customers and general public of the tie up with the other Party's, vide this MOU. Any such activity shall prominently display the Name / logo of the other Party's. Second Party can display the logo and other such trademarks of First Party on their website, to indicate the tie up with the First Party vide this MOU.

For


**Kapil Knowledge Hub Private Limited**



**Name: Mr. Shaik Zaheeruddin.  
Managing Director**



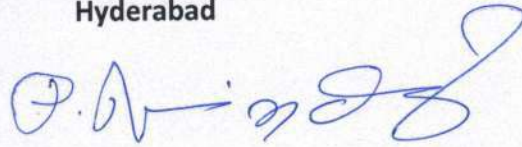
**Witness 1:**



**Witness 2:**

For

**Chaitanya Bharathi Institute of Technology  
Hyderabad**



**Name Dr. P. Ravinder Reddy  
Principal, CBIT(A)**



**Witness 1: T. Chowdhary  
Director - Incubation & Innovation  
R&E Hub, CBIT(A)  
Gandipet, Hyderabad-500075**

**Witness 2: [Signature]  
9/11/24**

## Memorandum of Understanding

This **Memorandum of Understanding** ("MOU" also called "Agreement") is made on 13<sup>th</sup> of August, 2021 between **Chaitanya Bharathi Institute of Technology, Hyderabad**, (hereinafter called "CBIT(A)" or "Institute"), Gandipet, Hyderabad-500075 and M/s **Fastworks Consulting Services Pvt Ltd (3D Labs India)**, an MSME incorporated under MSME Registration No: UDYAM-TS-02-0024579 Date: 01-05-2021, and having its office at Padmavathi Plaza, Store No 119, KPHB Main Road, Besides Kalamandir, Hyderabad – 500072 hereinafter called 3D Labs India.

### **1. Introduction**

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (CBIT(A)), established in the Year 1979, esteemed as the Premier Engineering Institute in the States of Telangana and Andhra Pradesh, was promoted with an Objective to facilitate the Best Engineering and Management Education to the Students and contribute towards meeting the need of Skilled and Technically conversant Engineers and Management Professionals, for the Country that embarked on an Economic Growth Plan. In its four decades of existence, all the Stake Holders of the Institute, relentlessly endeavored to position CBIT(A) as an Institution that is a Leader and an Innovator in the Ecosystem of Engineering Higher Education and Management. With the Students being the singular Objective, the Institute has established excellent Infrastructure such as State-of – the Art Laboratories, spacious Library with Printed and Digital Collection of Books and Journals, Sports, Hostel, and other Infrastructure for Research, Innovation, Incubation, Entrepreneurship, Extra and Co-Curricular Engagements with a total built-up Area of about 57,714 Sq. Mts., in the serene Ambience of 50 Acres to inspire, encourage and pursue Academics. In its relentless strive for Academic excellence, CBIT(A) has scaled great heights both Nationally and Internationally in Industry and Global Universities.

3D Labs India is a digital solutions provider based in Hyderabad. 3D labs provides 3D printing and consulting services to major companies in the field of additive manufacturing. The team at 3D labs can help students and innovators to take creativity and innovations to the next level and are focused to bridge the gap between conceptualization and transformation. Embraced with a futuristic vision, next-generation technology, 3D labs is focusing to introduce on rapid prototyping services in India. 3D Labs India will play a major

role in providing industrial-grade 3D printing services. 3D Labs is committed to providing engineering solutions to Industries and help them innovate manufacturing methods for transforming their business. 3D Labs India is a demo centre and focused on showcasing wide range of 3D printers, 3D printed products, conducts 3D printing classes, courses, and workshops to educate students, businessmen, housewives, and entrepreneurs on 3D printing applications and providing internship trainings as well. 3D Labs India has also been adopting and implementing cutting edge technologies on manufacturing various kinds of Drones, Robots, and IOT projects. 3D labs is also providing the makerspace to experts to innovate new products on mutual collaboration.

## **2.0 Recitals**

3D Labs India is interested in engaging with CBIT(A) in areas of mutual interest as framework outlined below but not necessarily restricted to those mentioned in 2.1 to 2.6.

CBIT(A) is having faculties with expertise in the area of Electrical, Mechanical, ECE, Bio-Tech, Chemical, CSE, IT and other emerging technologies areas, whose services can be availed by MSME Industries in Hyderabad to develop new products/process and software required by the customers and the society. Ministry of MSME, GOI, has approved MSME Incubation Centre at CBIT(A) to conduct various Programs. The services of Experts available with CBIT (A) can be availed by 3D Labs India, an MSME, to develop new products/process, software and incubate new ideas required by the customers and the society. The Proposed Interaction will also help students of CBIT (A) to have industry interaction and involvement in development projects taken up by 3D Labs India along with CBIT(A) or live projects being carried out by 3D Labs India for other organizations under their internship.

3D Labs India is interested in engaging with CBIT(A) in areas of mutual interest with focus areas as follows.

- 2.1 Innovative designs and development in the fields of Electrical, Electronics, 3D Printing technologies, Agriculture application of Drone and Robotics.
- 2.2 Implementing innovative projects using 3D Printing Technologies like FDM, SLS, DLP
- 2.3 Exploring on Concrete printing using 3d printing technology.
- 2.4 Implementing IOT Projects.
- 2.5 Other areas of mutual Interest and jointly apply for DST/Govt. funded Projects.
- 2.6 3D Labs India will explore to incubate new Ideas using facilities of CBIT(A) incubation center with due approval.

In consideration of the above recitals and the mutual benefits to be derived hereafter, the parties agree to enter into an Agreement as follows:

#### **ARTICLE – I: Scope of the MoU**

This MoU details the modalities and general conditions regarding collaboration between CBIT(A) and 3D Labs India for enhancing, within the country, the availability of highly qualified manpower in the areas of 3D Printing technologies, Drones, Robots, IOT projects, Concrete printing using 3D Technology, and Agriculture drones, etc. The area of interaction will also include training and internship of CBIT(A) students to work on live projects at 3D Labs India. The areas of cooperation can be further extended through mutual consent.

#### **ARTICLE – II: Scope and Terms of Interactions**

Both CBIT(A) and 3D Labs India shall encourage interactions between both the Institutes, Students & Staff and Engineers, of both the organizations through the following arrangements:

1. Both CBIT(A) and 3D Labs India will plan to work on Joint development projects of Mutual Interest and also explore for joint working on Govt. funded projects and other industrial projects based on mutual agreement.
2. 3D Labs India may seek assistance/guidance of CBIT(A)'s RE Hub for incubating New ideas and initiating any start-up company to develop new products or process along with CBIT(A).
3. Practical training of CBIT(A) students at 3D Labs India in the form of One-full Semester Internship at 3D Labs India;
4. Joint guidance of student projects/thesis in various technical areas including 3D printing and related Technologies and other areas at CBIT(A) by 3D Labs India on mutual agreement.
5. 3D Labs India may depute its personnel as expert faculty to deliver lectures in the area of 3D Printing and Robotics.
6. 3D Labs India will allow the industrial visits of students for half/full day to provide them with an exposure to various equipment, instrument, etc.
7. 3D Labs India may be allowed to showcase its business activities at the Seminar/Workshop/Conference, etc. if possible, at CBIT(A) that will be conducted time-to-time, with necessary permission from CBIT(A) and as per CBIT guidelines.

8. 3D Labs India may avail library facilities at CBIT(A) for combined projects for students' project work with necessary permission from the Institute.
9. There will be no restriction on the contents of the thesis and on publication of results of the thesis, subject to the condition that no Intellectual Property Rights can be secured for any part of the work which will be decided with mutual consent.
10. If the outcome of a project related to product development, process technology and design etc. which involves matter of secrecy and concern with security of the State and the Country, the same will not be allowed for publication/printing in any form such as Electronically/verbal, etc.
11. If the outcome of an Internship or the Thesis work or the combined project results into an intellectual property, for which rights can be secured, it will be decided on case-to-case basis depending upon the contribution from both the Institution. Similarly, sharing of expenditure in securing such rights and income accrued through royalty etc. will be decided on case- to-case basis after mutual consultation and agreement.

#### **ARTICLE-III: Sharing of Facilities**

- a) 3D Labs India shall extend its facilities for CBIT(A) students towards the smooth conduct of Internships and Projects depending on their convenience and availability of time & staff.
- b) CBIT(A) and 3D Labs India may explore to share their respective important R&D and maker space facilities in order to promote academic , research interaction and product development in the areas of cooperation depending upon availability of such facility without affecting their regular working.
- c) CBIT(A) and 3D Labs India will permit the sharing software and other components developed during any combined project work in the areas of cooperation, if permissible within the rules governing the two institutions. However, responsibility regarding confidentiality terms of the software and other materials during the exchange will rest on respective Head of department of the branch/section and 3D Labs India.
- d) 3D Labs India provide access to the library facilities to the members of faculty and students as per the prevailing rules and norms.

#### **ARTICLE-IV : Effective Date and duration of the MoU.**

- a) This MoU will be effective from the date of its approval by competent authorities at both ends.
- b) The duration of the MoU will be for a period of 2 years from the effective date which may be extended after mutual understanding. However, if any Important combined projects are under execution, both parties agree to complete the work even the MoU is not effective after two years.
- c) During its tenancy, the MoU may be extended or terminated by a prior notice of not less than one month by either party. However, termination of the MoU will not in any manner affect the interests of the students & faculty who have been admitted to pursue a Training/Project under the MoU.
- d) Any clause or article of the MoU may be modified or amended by mutual agreement of 3D Labs India and CBIT(A).

#### **ARTICLE - V: IPR**

Rights regarding publications, patents, royalty, ownership of software/design/product developed etc. under the scope of this MoU, will be decided by CBIT and 3D Labs India based on Mutual agreement.

#### **ARTICLE – VI: Confidentiality**

During the tenure of the MoU both CBIT(A) and 3D Labs India will maintain strict confidentiality and prevent disclosure of all the information and data exchanged under the scope of this MoU for any purpose other than in accordance with this MoU.

Both CBIT(A) and 3D Labs India shall bind their respective personnel who come into possession or knowledge of any confidential information not to disclose the same to third parties without written approval of the disclosing party or use such confidential information for any use other than intended under this agreement or PROJECTS. Further both CBIT(A) and 3D Labs India should put in place adequate and reasonable measures to keep and store confidential information secure so as to prevent any unauthorized use.

CONFIDENTIAL INFORMATION shall mean any proprietary information, data or facts belonging to PARTIES collectively or severally, disclosed by the disclosing party under this agreement or any subsequent agreement, whether in writing, verbal or electronically,

irrespective of the medium in which such information is stored, which is marked confidential or with any other words having similar meaning by the disclosing party, or specifically agreed to be kept confidential by the parties, or declared or identified so by the disclosing party before such disclosure or during the discussions. However confidential information should not include any data or information which:

- (a) is or becomes publicly available through no fault of the receiving party,
- (b) is already in the rightful possession of the receiving party prior to its receipt of such data or information;
- (c) is independently developed by the receiving party without reference to the confidential information of the disclosing party
- (d) is rightfully obtained by the receiving party from a third party or is in the public domain
- (e) is disclosed with the written consent of the party whose information it is, or
- (f) is disclosed pursuant to court order or other legal compulsion, after providing prior notice to the disclosing party.

#### **ARTICLE – VII: AMENDMENTS**

Any amendment and/or addenda to the AGREEMENT should be in writing and signed by the PARTIES hereto and shall only after such execution be deemed to form part of the AGREEMENT and have the effect of modifying the AGREEMENT to the extent required by such amendment or addenda.

#### **ARTICLE – VIII: Compensation, Force Measure, Approval and Dispute Settlement**

##### **a) Compensation**

Neither Party shall be liable to the other for any incidental, indirect, special or consequential damages, including but not limited, to loss of profits, loss of use, loss of revenues or damages to business or reputation arising out of or in connection with this Agreement or any aspect thereof. Neither Party shall be liable to the other by reason of the termination or expiry of this Agreement for compensation or damages on account of the loss of prospective business or on account of expenditures in expectation thereof.

**b) Force Majeure**

Any delay or failure in performance by the party to this Agreement, shall not constitute default hereunder to give rise to any claims for damages against said party, if any, to the extent caused by matters beyond the control of said party including but not limited to acts of Nature, Strikes, Lock outs or other concerted acts of workmen, fires, floods, explosions, blockages, embargoes, riots, war (declared or undeclared), rebellion, sabotage, extraordinary severe weather, pandemic situation, civil commotion and criminal acts of third persons. If the project under execution is delayed by such force majeure, then upon the happening of such delay, the parties within 30 days of the happening of such event, shall give notice in writing, requesting for extension of time indicating the period for which extension is desired. Efforts will be made by both parties to give fair and reasonable extension of time for the projects at their discretion but no monetary allowances shall be made unless it is mutually agreed.

**c) Approval of the MoU**

This Agreement may be signed by authorized officials, whether by original signature or by scanned signature due to the current situation (provided the pdf documents accompanied with official email), signature/approval over official email, with the same effect as if the signature to any counterpart was an original signature upon the same instrument.

**d) Dispute and Settlement**

- i) In case of any dispute (s), steps shall be taken by the parties to the MOU to settle the same through amicable negotiations. In case, dispute is not settled in negotiations, it shall be referred to Conciliator appointed by the designated official as per the bye law of CBIT(A), Hyderabad to arrive at a settlement.
- ii) In case dispute is not settled in conciliation proceedings, the same shall be referred to Arbitration for resolution of the dispute under Arbitration and conciliation Act 1996. The arbitration proceeding shall be conducted as per provisions of the Arbitration and Conciliation Act, 1996. The dispute shall be referred for arbitration to sole arbitrator to be appointed by the designated official (s) as per the bye law of CBIT(A) – Hyderabad. The award of the sole arbitrator shall be final and binding on both the parties. The



venue of the Arbitration shall be at Hyderabad in India. The Award to be given by the Arbitration shall be a speaking award.

ii) Applicable Laws and Jurisdiction of Courts

Indian laws both substantive and procedural, for the time being in force, including modifications thereto, shall govern the MOU including the arbitral proceedings. The competent Courts at Hyderabad in the State of Telangana - India shall have sole jurisdiction. All questions, disputes, differences arising under, out of or in connection with this MOU shall be to the exclusive jurisdiction of Hyderabad courts in the State of Telangana.

For

Fastworks Consulting Services Pvt Ltd  
(3D Labs India)  
Hyderabad

By

Name: Sreenivas Pusalra  
Director



Witness: Dr P.V. R Ravinder Reddy  
HoD, Mech. Engg.



For

Chaitanya Bharathi Institute of Technology  
Hyderabad

By

Name Dr P. Ravinder Reddy  
Principal, CBIT(A)



Witness: Dr Umakanta Choudhury  
Prof. & Director(I&I)

Director - Incubation & Innovation  
R&E Hub, CBIT(A)  
Gandipet, Hyderabad-500075

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (herein after referred to as "**MoU**") is being executed on this day i.e., **23<sup>rd</sup> February, 2021** by and between:

**T-Works Foundation**, a section 8 Company incorporated under the provisions of Companies Act, 2013 having its registered office at Room No 423A, 3<sup>rd</sup> Floor, D-Block, Telangana, Secretariat, Hyderabad- 500022 and corporate office at 7<sup>th</sup> floor, Splendid Towers, Begumpet, Hyderabad, 500016 (hereinafter referred to as "**T-Works**") represented by Mr. Sujai Karam-Puri, CEO (which expression shall, unless repugnant to the meaning or context thereof, be deemed to include its executors, representatives, administrators, successors and assigns) OF THE FIRST PART;

AND

**Chaitanya Bharati Institute of Technology**, a Premier Autonomous Engineering College which is established in 1979 and having its registered office at Hyderabad (hereinafter referred to as "**CBIT**") represented by Dr. G. P. Saradhi Varma, Principal, CBIT (which expression shall, unless repugnant to the meaning or context thereof, be deemed to include its executors, representatives, administrators, successors and assigns) OF THE SECOND PART;

"**T-Works**" and **CBIT** are collectively referred to herein as the "**Parties**" and individually referred to as a "**Party**"

### Preamble

- i. WHEREAS, **T-Works** is a company incorporated under Section 8 of the Companies Act, 2013 with a vision to create and celebrate a culture of hobbyists, makers, and innovators in India; who can translate ideas into prototypes in the areas of electronics, mechanical electromechanical.
- ii. WHEREAS, CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (CBIT(A)), established in the Year 1979, esteemed as the Premier Engineering Institute in the States of Telangana and Andhra Pradesh, was promoted with an Objective to facilitate the Best Engineering and Management Education to the Students and contribute towards meeting the need of Skilled and Technically conversant Engineers and Management Professionals, for our country embarked on an Economic Growth Plan. In its four decades of existence, all the Stake Holders of the Institute, relentlessly endeavored to position CBIT(A) as an Institution that is a Leader and an Innovator in the Ecosystem of Engineering and Management Higher Education. With the Students being the

G.P. Saradhi



singular Objective, the Institute has established excellent infrastructure such as state-of-the art laboratories, spacious library with collection of printed and digital books and journals, sports, hostel, and other infrastructure for research, innovation, incubation, entrepreneurship, extra and co-curricular engagements with a total built-up area of about 57,714 sq. mts., in the serene ambience of 50 Acres to inspire, encourage and pursue academics. In its relentless strive for academic excellence, CBIT(A) has scaled great heights both nationally and internationally in industry and global universities. CBIT has already established the MSME Incubation center and the establishment of Atal Community Innovation Centre (ACIC) at CBIT is under final approval with Atal Innovation Mission of NITI Aayog.

- iii. WHEREAS, the parties wish to collectively work towards the development of innovative products, facilitating CBIT Incubation centre to use the state of art manufacturing facility of T-Works and to facilitate T-Works to use the equipment's available with CBIT. Both parties will share the facilities and equipments based on their availability and mutual agreement.


**Now the MoU Witnesseth and the Parties hereby confirm and acknowledge that:**

#### **1. MoU Objectives**

This MoU creates a non-binding framework of cooperation under which the Parties can explore potential collaborative opportunities and innovative solutions for the development of new products and processes required for the Industry and society with an aim to,

- contribute towards self-reliance for the technologies;
- maximize growth opportunities in the MSME sector, promote development of economically backward areas, help agricultural sectors with technology, harness the talents/skills of the people to motivate them for and facilitate startups;
- provide assistance in developing the technologies in the area of Electric Mobility, Precision Engineering and 3-D manufacturing for strategic applications, waste management and green technologies, Renewable energy, Health and Pharmaceuticals, technology for the agricultural sectors and farming, information and Communication Technology (ICT), Water, Sanitation and Solid-Liquid Waste Management, drone technology and other emerging areas promoted by Govt. of Telangana;
- mutually support designing, analyzing, optimization and other developmental activities based on the specialization available with the respective parties;
- transform research into innovation and connecting innovation to industry and technology transfer.

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## 2. Contribution of the Parties

T-Works facilities will be used by CBIT's Incubation center for manufacturing and testing the innovative products and Similarly the T-Works can use the facilities available with CBIT based on based on mutual agreements and availability.

## 3. Terms & Termination

Either Party shall have the right to terminate this MoU without assigning any reason, by giving 30 (thirty) days written notice prior to date of termination.

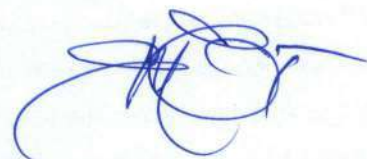
## 4. Duration of MoU

This MoU shall commence on Effective Date and shall continue to be in effect for **two years** from the Effective Date. The Parties shall have the right to review the terms of this MoU upon expiry of the period and the MoU shall be automatically renewed for successive period of one year unless terminated by either party through notice in writing or communication ensuring evidence and date of receipt.

## 5. Confidentiality

- a) Confidential Information shall mean all or any information shared by one Party with another Party and is otherwise available to the Parties by virtue of this MoU, including but not limited to confidential, proprietary and/or trade secret information, whether in tangible or intangible form, relating to or including advertisement content, artwork, campaign ideas and proposals, marketing information/ strategies, business information, product information, licensing or sales activities, policies, practices, outlooks, studies, reports, analyses, strategies or forecasts, finances, revenue, pricing, costs or profits, released or unreleased products including, but not limited to, software, hardware, development, research, designs, specifications, performance characteristics, code, formulas, algorithms, data, techniques, processes, inventions, testing strategies, industry, customer or consumer information or any other information related to a particular engagement and whether or not such information is expressly stated to be confidential ("**Confidential Information**").
- b) The Parties hereby agrees that due regard shall be given to the confidentiality of the Confidential Information which may come their way in the dealings under this MoU. The terms of this MoU and the information shared under this MoU are Confidential Information.

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- c) The Parties shall limit the disclosure of Confidential Information only to such of its employees who have a 'need to know' for the purposes of performing the activities under this MoU provided that such employees are bound by written confidentiality obligations at least as stringent as the terms contained herein. The Parties shall not disclose, divulge and/or disseminate the Confidential Information to any third party. The Parties shall take due care and steps to protect and safeguard the Confidential Information at all times and shall remain fully and primarily liable to disclosing Party for any and all disclosures. The Parties shall not replicate, copy, extract, create derivative works or otherwise modify or tamper with the Confidential Information in any way. The Parties shall return all Confidential Information, including all copies, extracts, memoranda on the termination or expiration of this MoU and certify in writing that it does not retain any Confidential Information in any form and this provision has been complied with. All confidentiality obligations shall survive the termination of this MoU.
- d) Notwithstanding the above, Confidential Information shall not include information which (i) is in the public domain through no fault of the receiving party; (ii) is rightfully obtained by the receiving party from a third party; or (iii) is independently developed by the receiving party without reference to the other party's Confidential Information.

#### **6. Third Party Rights**

This MoU does not confer any rights or benefits on any third party.

#### **7. Effective Date**

The effective date of this MoU is the date it has been signed by the Parties.

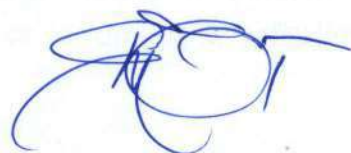
#### **8. Intellectual Property Rights:**

Both the Parties shall use, with prior written consent of the other Party, the trade names, trademarks, domain names, copyrights and all other intellectual property of the holder of the respective Party solely for the purpose of performing its obligations under this MoU and for no other purpose whatsoever.

#### **9. Indemnification:**

Each Party ("Indemnifying Party") shall defend, indemnify and hold harmless the other ("Indemnified Party") Party against any claims made by third parties and any direct damages, expenses, costs, obligations and other liabilities suffered by the Indemnified Party as a result of the acts and/or omissions of the Indemnifying Party.

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## 10. Representations, Warranties:

The Parties hereby represents and warrants that:

- a) They are or shall be duly incorporated and validly existing under the laws of India.
- b) They are not subject to/party to any covenants, agreements or restrictions arising out of their prior engagements or independent contractor relationships, which would be breached or be violated by them because of execution of this MOU or by their performance of their roles and responsibilities hereunder.
- c) They have executed and delivered this MOU as their free and voluntary act, after having determined that the provisions contained herein are of benefit to them, and that the roles and obligations imposed on them under this MOU are fair and reasonable.
- d) The obligations shall be met with promptness, diligence and in a workmanlike and professional manner, and in accordance with the terms of the MOU and best industry standards.

## 11. General Provisions:

- a) **Forbearance:** The failure on the part of either Party to insist upon the performance of any term or condition of this MoU, to enforce any obligation by the other Party, to claim a breach of any term of this MoU, to exercise any right or privilege conferred in this MoU or to demand any penalties resulting from any breach of any term or condition of this MoU, shall not be construed as a waiver of any term, condition, privilege, right, power or obligation under this MoU and it will not affect any subsequent breach and will not prejudice any Party as regards any subsequent action but the same shall continue and remain in full force and effect. All the waivers, in order to be legally binding, shall be in writing and duly signed by the authorized person of the waiving Party.
- b) **Amendment:** This MoU may be amended provided that any such amendments are agreed to in writing by the Parties.
- c) **Assignment:** Neither this MoU, nor any rights hereunder in whole or in part, shall be assignable or otherwise transferable by the Parties without the express written consent of the other Parties.

G.P.S.



## 10. Representations, Warranties:


The Parties hereby represents and warrants that:

- a) They are or shall be duly incorporated and validly existing under the laws of India.
- b) They are not subject to/party to any covenants, agreements or restrictions arising out of their prior engagements or independent contractor relationships, which would be breached or be violated by them because of execution of this MOU or by their performance of their roles and responsibilities hereunder.
- c) They have executed and delivered this MOU as their free and voluntary act, after having determined that the provisions contained herein are of benefit to them, and that the roles and obligations imposed on them under this MOU are fair and reasonable.
- d) The obligations shall be met with promptness, diligence and in a workmanlike and professional manner, and in accordance with the terms of the MOU and best industry standards.

## 11. General Provisions:

- a) **Forbearance:** The failure on the part of either Party to insist upon the performance of any term or condition of this MoU, to enforce any obligation by the other Party, to claim a breach of any term of this MoU, to exercise any right or privilege conferred in this MoU or to demand any penalties resulting from any breach of any term or condition of this MoU, shall not be construed as a waiver of any term, condition, privilege, right, power or obligation under this MoU and it will not affect any subsequent breach and will not prejudice any Party as regards any subsequent action but the same shall continue and remain in full force and effect. All the waivers, in order to be legally binding, shall be in writing and duly signed by the authorized person of the waiving Party.
- b) **Amendment:** This MoU may be amended provided that any such amendments are agreed to in writing by the Parties.
- c) **Assignment:** Neither this MoU, nor any rights hereunder in whole or in part, shall be assignable or otherwise transferable by the Parties without the express written consent of the other Parties.

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- d) **Severability:** In the event that any provision of this MoU conflicts with the law under which this MoU is to be construed, or if any such provision is held invalid by a court with jurisdiction over the Parties to this MoU, such provision shall be deemed to be restated to reflect as nearly as possible the original intentions of the Parties in accordance with applicable law, and the remainder of this MoU shall remain in full force and effect.
- e) **Governing Law:** This MoU and any action related thereto shall be governed, controlled, interpreted and defined by and under the laws of India and the parties submit to the exclusive jurisdiction of the Courts at Hyderabad.
- f) **Counterparts:** This MoU may be signed in any number or counterparts, each of which, when signed and delivered, shall be an original, but all such counterparts shall constitute one and the same instrument.
- g) **Coordination:** Mr./Dr. Anand Rajagopalan (Designation) Director, Operations of T-works will coordinate on behalf of T-Works and Dr U.K. Choudhury (Designation) Prof.& Director(I&I) on behalf of CBIT for regular activities and correspondence.
- h) The notice address for the respective parties shall be:

For T-Works: 7<sup>th</sup> floor, Splendid Towers, Begumpet, Hyderabad, 500016

For CBIT: Principal, CBIT, Gandipet, Hyderabad, Telangana, Pin: 500075

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IN WITNESS WHEREOF, the parties hereto have executed this MoU by persons duly authorized as of the date and year first above written.

**For T-Works**

Signature: .....

Name: **Sujai Subhash Karampuri**

Designation: CEO

Address: 7<sup>th</sup> Floor, Splendid Towers, Begumpet, Hyderabad, Telangana 500016

Date: 23<sup>rd</sup> February, 2021

Witness

Signature: .....

Name: Anand Rajagopalan (Designation)

Designation: Director, Operations of T-works

Date: 23<sup>rd</sup> February, 2021

**For CBIT**

Signature: .....

Name: **Prof. G.P. Saradhi Varma**

Designation: **Principal, CBIT**

Address: Gandipet, Hyderabad, Telangana, Pin: 500075

Date: 23<sup>rd</sup> February, 2021

Witness

Signature: .....

Name: ...Dr U.K. Choudhury

Designation: Prof. & director(I&I)

Date: : 23<sup>rd</sup> February, 2021

**Director - Incubation & Innovation  
R&E Hub, CBIT(A)  
Gandipet, Hyderabad-500075**

## Memorandum of Understanding

This Memorandum of Understanding ("MOU" also called "Agreement") is made as of the 10<sup>th</sup> of February, 2021 between **Chaitanya Bharathi Institute of Technology, Hyderabad** (hereinafter called "CBIT(A)" or "Institute") and **College Bag Private Limited**, plot no 123&124, Defence colony, Bairamalguda, Telangana, India.

### 1. Introduction

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (CBIT(A)), established in the Year 1979, esteemed as the Premier Engineering Institute in the States of Telangana and Andhra Pradesh, was promoted with an Objective to facilitate the Best Engineering and Management Education to the Students and contribute towards meeting the need of Skilled and Technically conversant Engineers and Management Professionals, for the Country that embarked on an Economic Growth Plan. In its four decades of existence, all the Stake Holders of the Institute, relentlessly endeavoured to position CBIT(A) as an Institution that is a Leader and an Innovator in the Ecosystem of Engineering Higher Education and Management. With the Students being the singular Objective, the Institute has established excellent Infrastructure such as State-of – the Art Laboratories, spacious Library with Printed and Digital Collection of Books and Journals, Sports, Hostel, and other Infrastructure for Research, Innovation, Incubation, Entrepreneurship, Extra and Co-Curricular Engagements with a total built-up Area of about 57,714 Sq. Mts., in the serene Ambience of 50 Acres to inspire, encourage and pursue Academics. In its relentless strive for Academic excellence, CBIT(A) has scaled great heights both Nationally and Internationally in Industry and Global Universities.

College Bag private Limited was established in Nov, 2020 with registration with MSME(Corp. Identity No of Company : U45201TG2020PTC145773 dated 11-11-2020) . College Bag is a product based technical company which develops the products to make student lives easier and increase their productivity. College Bag Private Limited has a plan to wide spread its services throughout the country. By providing technical and innovation solutions, production development, and marketing.

### 2.0 Recitals

'College Bag private Limited' is interested in engaging with CBIT(A) in areas of mutual interest as framework outlined below but not necessarily restricted to those mentioned in 2.1 to 2.5.

CBIT(A) is having faculties with expertise in the area of Electrical, Mechanical, ECE, Bio-Tech, Chemical, CSE, IT and other emerging technologies areas, whose services can be availed by MSME Industries in Hyderabad to develop new products/process and software required by the customers and the society. Ministry of MSME, GOI, has approved MSME Incubation Centre at CBIT(A) to conduct various Programs. The services of Experts available with CBIT (A) can be availed by College Bag Private Limited, an MSME, to develop new products/process, software and incubate new ideas required by the customers and the society. The Proposed Interaction will also help students of CBIT (A) to have industry interaction and involvement in development projects taken up by College Bag Private Limited along with CBIT(A) or live projects being carried out by College Bag Private Limited for other organizations under their internship. The industrial visits by the students will provide them with an exposure to various equipment, design, software and manufacturing/business process etc.

College Bag Private limited is interested in engaging with CBIT(A) in areas of mutual interest with focus areas as follows.

In consideration of the above recitals and the mutual benefits to be derived hereafter, the parties agree to enter into an Agreement with scope of the work by College Bag Pvt. Ltd. as follows:

2.1 Innovation designs and development in field of technology which helps college students.

2.2 Development of software which acts as bridge between administration and students.

2.3 Development of application for Virtual Labs ,providing internship for students in Industries and career counselling.

2.4 Development of application for farmer's education for modern farming.

2.5 To help Village school Children by providing them on line courses/classes and Skill Development.

#### **ARTICLE – I: Scope of the MoU**

This MoU details the modalities and general conditions regarding collaboration between CBIT(A) and College Bag Private Limited for enhancing, the availability of highly qualified manpower in the areas of innovation, product development, and testing etc. The area of interaction will also include training and internship of CBIT(A) students to work on live projects at College Bag Private Limited. The areas of cooperation can be further extended through mutual consent.

## ARTICLE – II: Scope and Terms of Interactions

Both CBIT(A) and College Bag Private Limited shall encourage interactions between both the Institutes, Students & Staff and Engineers, of both the organizations through the following arrangements:

1. Both CBIT(A) and College Bag Private Limited will plan to work on Joint development projects of Mutual Interest and also explore for joint working on Govt. funded projects based on mutual agreement.
2. Practical training of CBIT(A) students at College Bag Private Limited in the form of One-full Semester Internship at College Bag Private Limited;
3. Joint guidance of student projects in various technical areas including Embedded Systems and related Technologies and other areas of national interest at CBIT(A) by College Bag Private Limited on mutual agreement.
4. College Bag Private Limited may depute its personnel as resource person to CBIT(A) for supplementing the teaching of specialized topics.
5. College Bag Private Limited may seek assistance/guidance of CBIT(A)'s RE Hub for incubating New ideas and initiating any start-up company to develop new products or process along with CBIT(A).
6. College Bag Private Limited will allow the industrial visits of students for half/full day to provide them with an exposure to various equipment, instrument, etc.
7. College Bag Private Limited may be allowed to showcase its business activities at the Seminar/Workshop/Conference, etc. if possible, at CBIT(A) that will be conducted time-to-time, with necessary permission from CBIT(A).
8. College Bag Private Limited may avail library facilities at CBIT(A) for combined projects for students' project work with necessary permission from the Institute.
9. There will be no restriction on the contents of the thesis/project work and on publication of results of the thesis, subject to the condition that no Intellectual Property Rights can be secured for any part of the work which will be decided with mutual consent.
10. If the outcome of a project related to product development, process technology and design etc. which involves matter of secrecy and concern with security of the State and the Country, the same will not be allowed for publication/printing in any form such as Electronically/verbal, etc.
11. If the outcome of an Internship or the Project/Thesis work or the combined project results into an intellectual property, for which rights can be secured, it will be decided on case-to-case basis depending upon the contribution from both the Institution. Similarly, sharing of expenditure in securing such rights and income accrued through royalty etc. will be decided on case- to-case basis after mutual consultation and agreement.

### **ARTICLE-III: Sharing of Facilities**

- a) College Bag Private Limited shall extend its facilities for CBIT(A) students towards the smooth conduct of Internships and Projects depending on their convenience and availability of time & staff.
- b) CBIT(A) and College Bag Private Limited may explore to share their respective important R&D facilities in order to promote academic and research interaction in the areas of cooperation depending upon availability of such facility without affecting their regular working.
- c) CBIT(A) and College Bag Private Limited will permit the sharing software and other components developed during any combined project work in the areas of cooperation, if permissible within the rules governing the two institutions. However, responsibility regarding confidentiality terms of the software and other materials during the exchange will rest on respective Head of department of the branch/section and head of College Bag Private Limited.
- d) College Bag Private Limited provide access to the library facilities to the members of faculty and students as per the prevailing rules and norms.

### **ARTICLE-IV : Effective Date and duration of the MoU.**

- a) This MoU will be effective from the date of its approval by competent authorities at both ends.
- b) The duration of the MoU will be for a period of 2 years from the effective date which may be extended after mutual understanding. However, if any Important combined projects are under execution, both parties agree to complete the work even the MoU is not effective after two years.
- c) During its tenancy, the MoU may be extended or terminated by a prior notice of not less than one month by either party. However, termination of the MoU will not in any manner affect the interests of the students & faculty who have been admitted to pursue a Training/Project under the MoU.
- d) Any clause or article of the MoU may be modified or amended by mutual agreement of College Bag Private Limited and CBIT(A).

### **ARTICLE - V: IPR**

Rights regarding publications, patents, royalty, ownership of software/ design/product developed etc. under the scope of this MoU, will be decided by CBIT and College Bag Private Limited based on Mutual agreement.

## **ARTICLE – VI: Confidentiality**

During the tenure of the MoU both CBIT(A) and College Bag Private Limited will maintain strict confidentiality and prevent disclosure of all the information and data exchanged under the scope of this MoU for any purpose other than in accordance with this MoU.

Both CBIT(A) and College Bag Private Limited shall bind their respective personnel who come into possession or knowledge of any confidential information not to disclose the same to third parties without written approval of the disclosing party or use such confidential information for any use other than intended under this agreement or PROJECTS. Further both CBIT(A) and College Bag Private Limited should put in place adequate and reasonable measures to keep and store confidential information secure so as to prevent any unauthorized use.

CONFIDENTIAL INFORMATION shall mean any proprietary information, data or facts belonging to PARTIES collectively or severally, disclosed by the disclosing party under this agreement or any subsequent agreement, whether in writing, verbal or electronically, irrespective of the medium in which such information is stored, which is marked confidential or with any other words having similar meaning by the disclosing party, or specifically agreed to be kept confidential by the parties, or declared or identified so by the disclosing party before such disclosure or during the discussions. However confidential information should not include any data or information which:

- is or becomes publicly available through no fault of the receiving party,
- is already in the rightful possession of the receiving party prior to its receipt of such data or information;
- is independently developed by the receiving party without reference to the confidential information of the disclosing party
- is rightfully obtained by the receiving party from a third party or is in the public domain
- is disclosed with the written consent of the party whose information it is, or
- is disclosed pursuant to court order or other legal compulsion, after providing prior notice to the disclosing party.

## **ARTICLE – VII: AMENDMENTS**

Any amendment and/or addenda to the AGREEMENT should be in writing and signed by the PARTIES hereto and shall only after such execution be deemed to form part of the AGREEMENT and have the effect of modifying the AGREEMENT to the extent required by such amendment or addenda.

## **ARTICLE – VIII: Compensation, Force Measure, Approval and Dispute Settlement**

### **a) Compensation**

Neither Party shall be liable to the other for any incidental, indirect, special or consequential damages, including but not limited, to loss of profits, loss of use, loss of revenues or damages to business or reputation arising out of or in connection with this Agreement or any aspect thereof. Neither Party shall be liable to the other by reason of the termination or expiry of this Agreement for compensation or damages on account of the loss of prospective business or on account of expenditures in expectation thereof.

### **b) Force Majeure**

Any delay or failure in performance by the party to this Agreement, shall not constitute default hereunder to give rise to any claims for damages against said party, if any, to the extent caused by matters beyond the control of said party including but not limited to acts of Nature, Strikes, Lock outs or other concerted acts of workmen, fires, floods, explosions, blockages, embargoes, riots, war (declared or undeclared), rebellion, sabotage, extraordinary severe weather, pandemic situation, civil commotion and criminal acts of third persons. If the project under execution is delayed by such force majeure, then upon the happening of such delay, the parties within 30 days of the happening of such event, shall give notice in writing, requesting for extension of time indicating the period for which extension is desired. Efforts will be made by both parties to give fair and reasonable extension of time for the projects at their discretion but no monetary allowances shall be made unless it is mutually agreed.

### **c) Approval of the MoU**

This Agreement may be signed by authorized officials, whether by original signature or by scanned signature due to the current situation (provided the pdf document is accompanied with official email), signature/approval over official email, with the same effect as if the signature to any counterpart was an original signature upon the same instrument.

### **d) Dispute and Settlement**

- i) In case of any dispute (s), steps shall be taken by the parties to the MOU to settle the same through amicable negotiations. In case, dispute is not settled in negotiations, it

shall be referred to Conciliator appointed by the designated official as per the bye law of CBIT(A), Hyderabad to arrive at a settlement.

In case dispute is not settled in conciliation proceedings, the same shall be referred to Arbitration for resolution of the dispute under Arbitration and conciliation Act 1996. The arbitration proceeding shall be conducted as per provisions of the Arbitration and Conciliation Act, 1996. The dispute shall be referred for arbitration to sole arbitrator to be appointed by the designated official (s) as per the bye law of CBIT(A) – Hyderabad. The award of the sole arbitrator shall be final and binding on both the parties. The venue of the Arbitration shall be at Hyderabad in India. The Award to be given by the Arbitration shall be a speaking award.

ii) Applicable Laws and Jurisdiction of Courts


Indian laws both substantive and procedural, for the time being in force, including modifications thereto, shall govern the MOU including the arbitral proceedings. The competent Courts at Hyderabad in the State of Telangana - India shall have sole jurisdiction. All questions, disputes, differences arising under, out of or in connection with this MOU shall be to the exclusive jurisdiction of Hyderabad courts in the State of Telangana.

For  
College Bag Private Limited  
Hyderabad

For  
Chaitanya Bharathi Institute of Technology  
Hyderabad

Signature:

Signature:



Name: K Jeevan Reddy



Name: Dr. G. P. Saradhi Varma

Director of College Bag Private  
Limited

Principal, CBIT

Principal

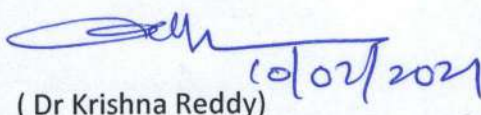
For COLLEGE BAG PRIVATE LIMITED

Chaitanya Bharathi Institute of Technology  
(Autonomous)  
Gandipet, Hyderabad-500 075

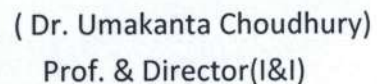


Witness: Director

Witness:



( Dr Krishna Reddy) 10/02/2021



( Dr. Umakanta Choudhury)

HoD, ECE

Prof. & Director(I&I)

HEAD  
DEPARTMENT OF ECE  
Chaitanya Bharathi Institute of Technology  
Hyderabad-500 075

Director - Incubation & Innovation  
R&E Hub, CBIT(A)  
Gandipet, Hyderabad-500075





GOVERNMENT OF INDIA  
MINISTRY OF CORPORATE AFFAIRS

Central Registration Centre

## Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that COLLEGE BAG PRIVATE LIMITED is incorporated on this Tenth day of November Two thousand twenty under the Companies Act, 2013 (18 of 2013) and that the company is limited by shares.

The Corporate Identity Number of the company is U45201TG2020PTC145773.

The Permanent Account Number (PAN) of the company is **AAJCC1074C** \*

The Tax Deduction and Collection Account Number (TAN) of the company is **HYDC11229B** \*

Given under my hand at Manesar this Eleventh day of November Two thousand twenty .

DS MINISTRY OF  
CORPORATE AFFAIRS 6

Digital Signature Certificate

Mr. Pankaj Srivastava

ASST. REGISTRAR OF COMPANIES

For and on behalf of the Jurisdictional Registrar of Companies

Registrar of Companies

Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of company can be verified on [www.mca.gov.in](http://www.mca.gov.in)

Mailing Address as per record available in Registrar of Companies office:

COLLEGE BAG PRIVATE LIMITED  
PLOT NO 123 & 124, DEFFENCE  
COLONY,BAIRAMALGUDA,KARMANGAT, HYDERABAD,  
Hyderabad, Telangana, India, 500079



\* as issued by the Income Tax Department

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## Fwd: College Bag control panel

1 message

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**Dr.A.Vani Associate Professor (Adhoc)** <avani\_ece@cbit.ac.in> Wed, May 5, 2021 at 11:03 AM  
To: "A. Krishna Kumar" <krishnakumar\_ece@cbit.ac.in>, "A. Satyavati" <satyavati\_ece@cbit.ac.in>, Abdul Mubeen <abdulmubeen\_ece@cbit.ac.in>, "B. Neeraja" <bneeraja\_ece@cbit.ac.in>, Chintaiyah N <chintaiyah\_ece@cbit.ac.in>, "D. Nagadevi" <dnagadevi\_ece@cbit.ac.in>, "D. Sony" <sonyd\_ece@cbit.ac.in>, Dattatreya Sarma Achanta <director\_randd@cbit.ac.in>, "Dr. A. Supraja Reddy" <suprajareddy\_ece@cbit.ac.in>, "Dr. A. Vani" <avani\_ece@cbit.ac.in>, "Dr. A.D. Sarma" <adsarma\_ece@cbit.ac.in>, "Dr. D. Krishna Reddy" <dkrishnareddy\_ece@cbit.ac.in>, "Dr. K. Suman" <ksuman\_ece@cbit.ac.in>, "Dr. Kondoju. Sai Krishna" <ksaikrishna\_ece@cbit.ac.in>, "Dr. M Raj Kumar Naik" <rajkumarnaik\_ece@cbit.ac.in>, "Dr. M.L.N.Charyulu" <mlncharyulu\_ece@cbit.ac.in>, "Dr. N. Alivelu Manga" <alivelumanga\_ece@cbit.ac.in>, "Dr. N.V. Koteswara Rao" <nvkoteswararao\_ece@cbit.ac.in>, "Dr. P. Narahari Sastry" <naraharisastry\_ece@cbit.ac.in>, "Dr. Vinodh Kumar Minchula" <vinodhkumarm\_ece@cbit.ac.in>, "E. Chandrasekhar" <echandrasekhar\_ece@cbit.ac.in>, "G. Mallikharjuna Rao" <mallikharjunarao\_ece@cbit.ac.in>, "G. V. Pradeep Kumar" <pradeepkumar\_ece@cbit.ac.in>, Ghata Chouhan <ghatachouhan\_ece@cbit.ac.in>, "J. Balakrishna" <jbalakrishna\_ece@cbit.ac.in>, "J. Mounika" <jmounika\_ece@cbit.ac.in>, "K. S. R. S. Jyothsna" <jyothsna\_ece@cbit.ac.in>, "K. Sudershan Reddy" <sudarshanreddy\_ece@cbit.ac.in>, "M. Ramana Reddy" <mramanareddy\_ece@cbit.ac.in>, "M. V. Nagabhushanam" <nagabhushanam\_ece@cbit.ac.in>, "M. Venkata Sireesha" <sireesha\_ece@cbit.ac.in>, Mohd Ziauddin Jahangir <jahangir\_ece@cbit.ac.in>, "N. Dhana Lakshmi" <dhanalakshmi\_ece@cbit.ac.in>, "N. Jagan Mohan Reddy" <jaganmohanreddy\_ece@cbit.ac.in>, "Navitha Ch." <navitha\_ece@cbit.ac.in>, Nisha Rani Misra <nisharanimisra\_ece@cbit.ac.in>, "P. Chandra Sekhar" <pchandrasekhar\_ece@cbit.ac.in>, "P. Ranjith" <pranjith\_ece@cbit.ac.in>, "P. Sathish" <psathish\_ece@cbit.ac.in>, Sikander <sikander\_ece@cbit.ac.in>, Suraj Prakash Sahoo <surajprakashsahoo\_ece@cbit.ac.in>, "T. Aravinda Babu" <aravindababu\_ece@cbit.ac.in>, "T. Sridher" <tsridhar\_ece@cbit.ac.in>

----- Forwarded message -----

From: **jeevan kasireddy** <jeevankasireddy2468@gmail.com>  
Date: Mon, May 3, 2021 at 4:45 PM  
Subject: College Bag control panel  
To: A. Professor <avani\_ece@cbit.ac.in>



## Welcome!

We are happy to launch **College Bag App** for the Students  
to stay connected with your College.



## Login Details

Login ID : YOUR\_COLLEGE\_EMAIL

Password : collegebag



Visit our Website

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Now you can easily stay connected on your mobile device  
with your **CBIT College** campus instructors  
right from within the app!

Also, stay up to date on all the latest news and events!



[support@thecollegebag.com](mailto:support@thecollegebag.com)

Karmangat, Hyderabad, Telangana 500079.

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## Fwd: Admin login Credentials

1 message

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**Dr.A.Vani Associate Professor (Adhoc)** <avani\_ece@cbit.ac.in> Wed, May 5, 2021 at 11:03 AM  
To: "A. Krishna Kumar" <krishnakumar\_ece@cbit.ac.in>, "A. Satyavati" <satyavati\_ece@cbit.ac.in>, Abdul Mubeen <abdulmubeen\_ece@cbit.ac.in>, "B. Neeraja" <bneeraja\_ece@cbit.ac.in>, Chintaiyah N <chintaiyah\_ece@cbit.ac.in>, "D. Nagadevi" <dnagadevi\_ece@cbit.ac.in>, "D. Sony" <sonyd\_ece@cbit.ac.in>, Dattatreya Sarma Achanta <director\_randd@cbit.ac.in>, "Dr. A. Supraja Reddy" <suprajareddy\_ece@cbit.ac.in>, "Dr. A. Vani" <avani\_ece@cbit.ac.in>, "Dr. A.D. Sarma" <adsarma\_ece@cbit.ac.in>, "Dr. D. Krishna Reddy" <dkrishnareddy\_ece@cbit.ac.in>, "Dr. K. Suman" <ksuman\_ece@cbit.ac.in>, "Dr. Kondoju. Sai Krishna" <ksaikrishna\_ece@cbit.ac.in>, "Dr. M Raj Kumar Naik" <rajkumarnaik\_ece@cbit.ac.in>, "Dr. M.L.N.Charyulu" <mlncharyulu\_ece@cbit.ac.in>, "Dr. N. Alivelu Manga" <alivelumanga\_ece@cbit.ac.in>, "Dr. N.V. Koteswara Rao" <nvkoteswararao\_ece@cbit.ac.in>, "Dr. P. Narahari Sastry" <naraharisastry\_ece@cbit.ac.in>, "Dr. Vinodh Kumar Minchula" <vinodhkumarm\_ece@cbit.ac.in>, "E. Chandrasekhar" <echandrasekhar\_ece@cbit.ac.in>, "G. Mallikharjuna Rao" <mallikharjunarao\_ece@cbit.ac.in>, "G. V. Pradeep Kumar" <pradeepkumar\_ece@cbit.ac.in>, Ghata Chouhan <ghatachouhan\_ece@cbit.ac.in>, "J. Balakrishna" <jbalakrishna\_ece@cbit.ac.in>, "J. Mounika" <jmounika\_ece@cbit.ac.in>, "K. S. R. S. Jyothsna" <jyothsna\_ece@cbit.ac.in>, "K. Sudershan Reddy" <sudarshanreddy\_ece@cbit.ac.in>, "M. Ramana Reddy" <mramanareddy\_ece@cbit.ac.in>, "M. V. Nagabhushanam" <nagabhushanam\_ece@cbit.ac.in>, "M. Venkata Sireesha" <sireesha\_ece@cbit.ac.in>, Mohd Ziauddin Jahangir <jahangir\_ece@cbit.ac.in>, "N. Dhana Lakshmi" <dhanalakshmi\_ece@cbit.ac.in>, "N. Jagan Mohan Reddy" <jaganmohanreddy\_ece@cbit.ac.in>, "Navitha Ch." <navitha\_ece@cbit.ac.in>, Nisha Rani Misra <nisharanimisra\_ece@cbit.ac.in>, "P. Chandra Sekhar" <pchandrasekhar\_ece@cbit.ac.in>, "P. Ranjith" <pranjith\_ece@cbit.ac.in>, "P. Sathish" <psathish\_ece@cbit.ac.in>, Sikander <sikander\_ece@cbit.ac.in>, Suraj Prakash Sahoo <surajprakashsahoo\_ece@cbit.ac.in>, "T. Aravinda Babu" <aravindababu\_ece@cbit.ac.in>, "T. Sridher" <tsridhar\_ece@cbit.ac.in>

----- Forwarded message -----

From: **jeevan kasireddy** <jeevankasireddy2468@gmail.com>  
Date: Mon, May 3, 2021 at 5:04 PM  
Subject: Admin login Credentials  
To: <hod\_ece@cbit.ac.in>, A. Professor <avani\_ece@cbit.ac.in>

Hello Sir/Madam,  
Good day, hope you are doing great. Ther credentials for staff are mentioned below, please use them to communicate with students.

<https://portal.thecollegebag.com/cbit>

Credentials  
FACULTY\_EMAIL\_ID  
password  
collegebag

Thank you,  
Team college bag.

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## Fwd: College Bag testing request

1 message

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**Dr.A.Vani Associate Professor (Adhoc)** <avani\_ece@cbit.ac.in> Wed, May 5, 2021 at 11:05 AM  
To: "A. Krishna Kumar" <krishnakumar\_ece@cbit.ac.in>, "A. Satyavati" <satyavati\_ece@cbit.ac.in>, Abdul Mubeen <abdulmubeen\_ece@cbit.ac.in>, "B. Neeraja" <bneeraja\_ece@cbit.ac.in>, Chintaiyah N <chintaiyah\_ece@cbit.ac.in>, "D. Nagadevi" <dnagadevi\_ece@cbit.ac.in>, "D. Sony" <sonyd\_ece@cbit.ac.in>, Dattatreya Sarma Achanta <director\_randd@cbit.ac.in>, "Dr. A. Supraja Reddy" <suprajareddy\_ece@cbit.ac.in>, "Dr. A. Vani" <avani\_ece@cbit.ac.in>, "Dr. A.D. Sarma" <adsarma\_ece@cbit.ac.in>, "Dr. D. Krishna Reddy" <dkrishnareddy\_ece@cbit.ac.in>, "Dr. K. Suman" <ksuman\_ece@cbit.ac.in>, "Dr. Kondoju. Sai Krishna" <ksaikrishna\_ece@cbit.ac.in>, "Dr. M Raj Kumar Naik" <rajkumarnaik\_ece@cbit.ac.in>, "Dr. M.L.N.Charyulu" <mlncharyulu\_ece@cbit.ac.in>, "Dr. N. Alivelu Manga" <alivelumanga\_ece@cbit.ac.in>, "Dr. N.V. Koteswara Rao" <nvkoteswararao\_ece@cbit.ac.in>, "Dr. P. Narahari Sastry" <naraharisastry\_ece@cbit.ac.in>, "Dr. Vinodh Kumar Minchula" <vinodhkumarm\_ece@cbit.ac.in>, "E. Chandrasekhar" <echandrasekhar\_ece@cbit.ac.in>, "G. Mallikharjuna Rao" <mallikharjunarao\_ece@cbit.ac.in>, "G. V. Pradeep Kumar" <pradeepkumar\_ece@cbit.ac.in>, Ghata Chouhan <ghatachouhan\_ece@cbit.ac.in>, "J. Balakrishna" <jbalakrishna\_ece@cbit.ac.in>, "J. Mounika" <jmounika\_ece@cbit.ac.in>, "K. S. R. S. Jyothisna" <jyothisna\_ece@cbit.ac.in>, "K. Sudershan Reddy" <sudarshanreddy\_ece@cbit.ac.in>, "M. Ramana Reddy" <mramanareddy\_ece@cbit.ac.in>, "M. V. Nagabhusanam" <nagabhusanam\_ece@cbit.ac.in>, "M. Venkata Sireesha" <sireesha\_ece@cbit.ac.in>, Mohd Ziauddin Jahangir <jahangir\_ece@cbit.ac.in>, "N. Dhana Lakshmi" <dhanalakshmi\_ece@cbit.ac.in>, "N. Jagan Mohan Reddy" <jaganmohanreddy\_ece@cbit.ac.in>, "Navitha Ch." <navitha\_ece@cbit.ac.in>, Nisha Rani Misra <nisharanimisra\_ece@cbit.ac.in>, "P. Chandra Sekhar" <pchandrasekhar\_ece@cbit.ac.in>, "P. Ranjith" <pranjith\_ece@cbit.ac.in>, "P. Sathish" <psathish\_ece@cbit.ac.in>, Sikander <sikander\_ece@cbit.ac.in>, Suraj Prakash Sahoo <surajprakashsahoo\_ece@cbit.ac.in>, "T. Aravinda Babu" <aravindababu\_ece@cbit.ac.in>, "T. Sridher" <tsridhar\_ece@cbit.ac.in>

----- Forwarded message -----

From: **ECE HEAD** <hod\_ece@cbit.ac.in>  
Date: Wed, May 5, 2021 at 8:52 AM  
Subject: Fwd: College Bag testing request  
To: Dr. A. Vani <avani\_ece@cbit.ac.in>

**Dr. D. Krishna Reddy**  
**Professor and Head, Dept. of ECE**  
Chaitanya Bharathi Institute of Technology  
Autonomous Institution Under UGC  
Accredited by NBA & NAAC  
Chaitanya Bharathi (Post), Gandipet  
HYDERABAD-500075, INDIA

----- Forwarded message -----

From: **Director Incubation & Innovation** <director\_ii@cbit.ac.in>  
Date: Wed, May 5, 2021 at 8:48 AM  
Subject: Re: College Bag testing request  
To: ECE HEAD <hod\_ece@cbit.ac.in>  
Cc: Director HRE <director\_hre@cbit.ac.in>, Principal CBIT <principal@cbit.ac.in>

Dear Prof. Krishna Reddy

Please allow Dr Vani to share with some of the Faculties who can test this demo application developed by the startup being incubated by us. . This is one of the start-ups, we have been guiding for the last few months. The application will be useful for Educational purposes and will benefit the students also for the Teachers. Similar applications will also be extended to farmer's education by the M/s College bag in the future. The faculties should communicate with the students as well as M/S College Bag either through HoD or Dr Vani. We hope in the next few months, this start-up will go for commercial applications and such achievement is going to be useful for CBIT.  
Best Wishes.

Dr U.K. Choudhury  
Prf. & Director(I&I)

On Wed, May 5, 2021 at 8:35 AM ECE HEAD <[hod\\_ece@cbit.ac.in](mailto:hod_ece@cbit.ac.in)> wrote:

Dear Jeevan

After getting clearance from director I&I, Dr Vani madam will initiate the process

Thank you

***Dr. D. Krishna Reddy***

**Professor and Head, Dept. of ECE**

Chaitanya Bharathi Institute of Technology

Autonomous Institution Under UGC

Accredited by NBA & NAAC

Chaitanya Bharathi (Post), Gandipet

HYDERABAD-500075, INDIA

On Wed, May 5, 2021 at 5:23 AM jeevan kasireddy <[jeevankasireddy2468@gmail.com](mailto:jeevankasireddy2468@gmail.com)> wrote:

hello sir,

Good day, hope you are doing great. I'm writing this mail to request the faculty to use the college bag admin control panel to communicate with students. We are working so hard since march 2020 to develop this application, and now we are in the final stage to succeed and we also able to convince 4 colleges to use our application from the next intake. we really need your help in testing the features. It only happens when faculty starts using our application. I'm very thankful to you for giving ECE 3rd year students to test the application.

Please use these 3 modules:

- 1.Attendance
- 2.knowledge base
- 3.Messages for notifications.

Please use this link

Credentials

FACULTY\_EMAIL\_ID

password

collegebag

Thank you,  
Jeevan.

From: **Director Incubation & Innovation** <[director\\_ii@cbit.ac.in](mailto:director_ii@cbit.ac.in)>  
Date: Mon, Jul 26, 2021 at 1:51 PM  
Subject: IIC Calendar Activity on July 27th at 6 pm  
To: Principal CBIT <[principal@cbit.ac.in](mailto:principal@cbit.ac.in)>  
Cc: ECE HEAD <[hod\\_ece@cbit.ac.in](mailto:hod_ece@cbit.ac.in)>, CSE HEAD <[hod\\_cse@cbit.ac.in](mailto:hod_cse@cbit.ac.in)>, IT HEAD <[hod\\_it@cbit.ac.in](mailto:hod_it@cbit.ac.in)>

Dear Sir

IIC, CBIT would like to arrange a session by one of the young Entrepreneur and ECE, CBIT Alumni Mr. K. Jeevan Reddy who is Incubating his Idea as a start-up on the development of Software and Application on Educational Technology at our campus. We have signed an MoU with M/S College Bag, MSME Company established by Mr. Jeevan for the idea Incubation. a

We request your kind permission to go ahead with the Program. Being our Alumni, No honorarium will be paid.

With Warm Regards.  
Dr U.K. Choudhury  
Prof. & Director(II&I)

The topic of the session and the link are as follows.

**Interactive Session/Mentoring Session with "Successful Start-up founders" (Entrepreneurs in Campus) by Young Entrepreneur and CBIT Alumni , Mr K. Jeevan Reddy**

**Tuesday, July 27, 2021**

**6:00 PM (1 hr 30 mins)**

**Join from the meeting link**

<https://cbithyd.webex.com/cbithyd/j.php?MTID=me6b0b6441125ac0af7b093aabb5cc530>

**Join by meeting number**

Meeting number (access code): 158 403 1474

Meeting password: WYrbYMBf552 (99729623 from phones)

Note: PS To Principal, to please arrange for circulation after approval by Principal Sir.



Sl. No & of Q3: **Interactive Session/Mentoring Session with "Successful Start-up founders" (Entrepreneurs in Campus) by Young Entrepreneur and CBIT Alumni , Mr K. Jeevan Reddy**

**Tuesday, July 27, 2021**

**6:00 PM (1 hr 30 mins)**

Link: [https://drive.google.com/file/d/19sku7UgcT\\_QmZ7yiBrTzOyBwO0AKzXDP/view?usp=sharing](https://drive.google.com/file/d/19sku7UgcT_QmZ7yiBrTzOyBwO0AKzXDP/view?usp=sharing)

IIC, CBIT have arranged a talk on **Interactive Session/Mentoring Session with "Successful Start-up founders" (Entrepreneurs in Campus)** by one of the young Entrepreneur and ECE, CBIT Alumni **Mr. K. Jeevan Reddy** who is Incubating his Idea as a start-up on the development of Software and Application on Educational Technology named as **College Bag** (Stay connected with the Institute like never Before).

- Indian education system
- How english education came to india and how does english education have to do with the life of indian education.
- The domination of indian engineers on IT industry.
- What USA imports from India?

#### **Presentation on College Bag start-up**

He presented features and function of his start-up and how **College Bag** is useful for **Ease of doing. College Bag** is used for students to know about attendance, marks, faculty to interactive with students to provide lecture notes assignments and administration to collect fee online. He also discussed the upcoming features of **College Bag** which includes career counselling, online exams. College social media, Placements and Assignments submission with Plagiarism Software.

Mr.K.Jeevan Reddy ,Motivated the students to become a **Young Entrepreneurs in Campus**.A story surrounding more then a million students in india built around a booming IIT industry,a machine like education system, a race to a seat amongst the top engineering colleges and student suicides in our system. The Indian education system in all its complexity has turned out to be one of the most fascinating educational stories in the world. Jeevan Reddy presented about his product, College Bag and he also shared his entropreneural journey and his struggles he is facing in marketing his product.



(For Innovators, Startups, Students and Faculty)

**IIC - CBIT**  
Organizes

Interactive Session/Mentoring Session with "Successful Start-up founders" (Entrepreneurs in Campus)

Meeting Link:  
<https://cbithvd.webex.com/join?MTID=m6b0b6441125a0af7b093aabb5cc530>  
Cisco access Code: 158 403 1474  
Password: WYrYMBf552

Tuesday, July 27, 2021  
@ 6.00 pm to 7.30 pm

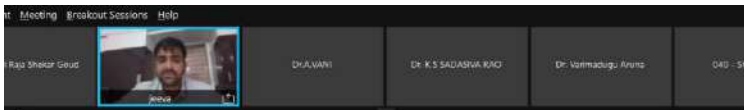
Resource Person  
**Mr K. Jeevan Reddy**  
Entrepreneur & CBIT Alumni

Coordinators :

Dr. P. Narahari Sastry  
9948397802

Dr. A. Vani  
9440079310

Dr. V. Aruna  
9849831044



Raja Shekar Goud | Dr. AVINI | Dr. K S PADMASA RAO | Dr. Venkatesh Anand | 040 - 38

Viewing jeeva's application(s)

College Bag Student App

Raja Shekar Goud | Dr. AVINI | Dr. K S PADMASA RAO | Dr. Venkatesh Anand | 040 - 38

Viewing jeeva's application(s)

### Problem Solution

“Universities and colleges across the world can use College Bag to connect everyone and everything at their institution in one place.”

Raja Shekar Goud | Dr. AVINI | Dr. K S PADMASA RAO | Dr. Venkatesh Anand | 040 - 38

Viewing jeeva's application(s)

### College Bag Faculty Control Panel

Profile: Alex Gray, Head, Professor

Address: 60, 7th Cross Street, East New Park, Bangalore, Karnataka, India

Phone Number: 0244-788

Email: alex@collegebag.com

Dr. Raja Shekar Goud    Dr. A.VANI    Dr. K.S SADASIVA RAO    Dr. Varimadugu Aruna    040 - 5

Viewing jeeva's application(s)

### Want to collect fees online from your students ?

CollegeBag is a powerful combination of Fee Management Software + Online Payment Gateway by which you can collect fees from your students online & manage everything easily.

**No more standing in the queue**

**Pay anytime anywhere 24/7**

**Instant notification on fee collection**

**Student**

- 📱 Pay from your phone anytime, anywhere at your convenience.
- 💳 Wide range of payment options.
- 📄 Instant e-receipts of all fee payments.
- 🔒 SSL secured environment.

**Admin**

- 📧 Automatic SMS/Email Fee Reminders.
- 🔗 Quick way of sending payment links via SMS/Email/Social Media.
- 📊 Customizable generation of financial reports and receipts.
- 🔄 End to end reconciliation from banks, cash and online payments.

Dr. Raja Shekar Goud    Dr. A.VANI    Dr. K.S SADASIVA RAO    Dr. Varimadugu Aruna    040 - 5

Viewing jeeva's application(s)

## Our Promises

**01**

**Zero Paperwork**

**02**

**Zero Setup Fee**

**03**

**Zero Tenure Contract**

Dr. Raja Shekar Goud    Dr. A.VANI    Dr. K.S SADASIVA RAO    Dr. Varimadugu Aruna    040 - 5

Viewing jeeva's application(s)

## CollegeBag Upcoming Features

- Career Counselling
- Online exams
- College Social Media
- Placements
- Assignment submission with plagiarism software



## CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD-75

Dt. 10-2-22

### CIRCULAR

CBIT's Institute Innovation Council (IIC) is organizing the following Webinars as a part of IIC Calendar activities as per the following schedule. The online platform will be Cisco webex as per enclosed links. The Session is designed keeping in view of development of Innovation and Entrepreneurial mindset for the students.

S. No	Activity (Theme Inspiration Motivation and Ideation)	Resource Person	Coordinator
1	My Story - Motivational Session by Successful Innovators <b>11-2-22 , 10:20 am to 11:45 am</b>	Alumni ECE and CSE Depts. K. Jeevan and Sharmila Gayatri	Dr. A. Vani , Asst. Prof. ECE Mobile: 9440079310 Dr. G. Vanitha, Asst. Prof, CSE Mobile No: 9959959585
2	My Story - Motivational Session by Successful Entrepreneur/Startup founder. <b>12-2-22 , 10:20 am to 11:30 am</b>	Alumni . Mech. Engg Dept. MSME Owner/Founder Mr. Venkatesh Yeramalla	Mr. BVS Rao Asst. Prof. MED Mobile:9290545750 Mrs. V. Sandhya, Asst. Prof. MED, Mobile:9290545750
3	Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" & "Commercialisation of Lab Technologies & Tech-Transfer <b>12-2-22 , 2:30 pm to 4:00 pm</b>	Mr. Ashu Agarwal, Skill IT	Dr. GNR Prasad ASST. Prof. MCA Mobile:9885191683 Dr. V. Aruna Asst. Prof. BioTech Mobile:9849831044

WebEx Link **SI No1:** CBIT's IIC Session on My Story - Motivational Session by Successful Innovators

Hosted by Dr. Vanitha G Friday, **Feb 11, 2022 10:20 am**

<https://cbithyd.webex.com/cbithyd/j.php?MTID=m18f7cf91879fe01423e40a93ee27eb33>

Meeting number: 2644 121 9857

Password: IIC@Talks (44218255 from phones and video systems)

Agenda:" My Story - Motivational Session by Successful Innovators , Interactive Session/Mentoring Session with "Successful Start-up founders

Webex link **SI No 2:** CBIT's IIC Session on Motivational Session by Successful Entrepreneur/Startup founder.

**12-2-22 , 10:20 am to 11:30 am** Hosted by director\_ii@cbit.ac.in

<https://cbithyd.webex.com/cbithyd/j.php?MTID=m9c662849a56813ccb217e619ee53daf0>

Saturday, **Feb 12, 2022 10:20 am**

Meeting number: 2641 457 8924

Password: cbitiic (2248442 from phones and video systems)

Webex link SI No 3: CBIT's IIC Session on Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" 12-2-22 , 2:30 pm Hosted by director\_ii@cbit.ac.in

<https://cbithyd.webex.com/cbithyd/j.php?MTID=m50b6a49733c937eacc70db01589d3211>

Saturday, **Feb 12, 2022 2:30 pm** | 1 hour 30 minutes |

Meeting number: 2643 789 6068

Password: cbitiic (2248442 from phones and video systems)

Interested students and faculties are advised to attend the sessions as per above mentioned links. The Sessions will be coordinated by the faculties mentioned in the above table.

**Principal, CBIT**

To: All Heads of the Departments/ Sections for information and for circulation among all the class teachers of their Department for necessary action.

All Directors, HR & PRO for information & n/a.

**5. IMPERIAL SOCIETY OF INNOVATIVE ENGINEERS (ISIEINDIA,**  
An ISO 9001:2008 & Associate Member of FMSCI and SFI,  
National Youth Award Winner by Ministry of Youth Affairs,  
Recommended by Ministry of New and Renewable Energy, Govt.  
of India) have indigenous developed & manufactured  
100% Solar Powered and Hybrid Vehicles to make our country  
green and clean.

- Main aim is to promote Skill Development Program, Skill Awareness Program, Summer Training Program, Guest Lecture, Expert Lecture, and Faculty Development Program.
- MoU document



**CHAITANYA BHARATHI INSTITUTE OF  
TECHNOLOGY(A)  
GANDIPET, HYDERABAD**

AND



**IMPERIAL SOCIETY OF  
INNOVATIVE ENGINEERS (ISIE)  
NOIDA**



## MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (“MOU” also called “Agreement”) is entered into from this “Date 26-02-2021” for a period of 2 Years.

**Party 1 - IMPERIAL SOCIETY OF INNOVATIVE ENGINEERS (ISIEINDIA), E-210, First Floor, Sector 63, Noida, Delhi NCR 201301.**

AND

**Party 2 - CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, Hyderabad, Telangana-500075**

### 1. Introduction

**Party 1 - CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (CBIT(A))**, established in the Year 1979, esteemed as the Premier Engineering Institute in the States of Telangana and Andhra Pradesh, was promoted with an Objective to facilitate the Best Engineering and Management Education to the Students and contribute towards meeting the need of Skilled and Technically conversant Engineers and Management Professionals, for the Country that embarked on an Economic Growth Plan. In its four decades of existence, all the Stake Holders of the Institute, relentlessly endeavored to position CBIT(A) as an Institution that is a Leader and an Innovator in the Ecosystem of Engineering Higher Education and Management. With the Students being the singular Objective, the Institute has established excellent Infrastructure such as State-of - the Art Laboratories, spacious Library with Printed and Digital Collection of Books and Journals, Sports, Hostel, and other Infrastructure for Research, Innovation, Incubation, Entrepreneurship, Extra and Co-Curricular Engagements with a total built-up Area of about 57,714 Sq. Mts., in the serene Ambience of 50 Acres to inspire, encourage and pursue Academics. In its relentless strive for Academic excellence, CBIT(A) has scaled great heights both Nationally and Internationally in Industry and Global Universities.

**Party 2 - IMPERIAL SOCIETY OF INNOVATIVE ENGINEERS (ISIEINDIA**, An ISO 9001:2008 & Associate Member of FMSCI and SFI, National Youth Award Winner by Ministry of Youth Affairs, Recommended by Ministry of New and Renewable Energy, Govt. of India) have indigenously developed & manufactured **100% Solar Powered and Hybrid Vehicles** to make our country green and clean. This initiative of Imperial Society of Innovative Engineers (ISIEINDIA), after a long way of research & development, provided the platform to engineering students from more than **750+ Universities/Colleges** from all over the country to build the vehicle which runs on **green energy**. As our initiative is supported by **CII-Confederation of Indian Industry**, CII provided us opportunity to exhibit **solar/hybrid** at GES16 and GMX 2017 held at **India Expo Mart and Pragati**

**Maidan, New Delhi** respectively to show talent in front of world's leading Automobile companies. Our services are also appreciated by **PMO India** and **ESVC (Asia's biggest Solar Vehicle Challenge)** has been noted by **MNRE (Solar R&D Division) For Solar Research Project**. We are leading organization from last 7 years to promote **Innovation and New Concept of Technology**. In past year we organized more than 1000 various **Unique Concept Skill Development Program** to skill future generation and meet the demand of Industry for their career. We have trained more than **2.5 Lakh+ people** in past 7 years for technical, research and professional skills. We had created new job opportunities, start-ups and new concept in **Green Technologies**.

## 2. Recitals

'ISIEINDIA' is interested in engaging with CBIT (A) in areas of mutual interest as framework outlined below but not necessarily restricted to those mentioned below.

CBIT(A) is having faculties with expertise in the area of Electrical, Mechanical, ECE, Bio-Tech, Chemical, CSE, IT and other emerging technologies areas, whose services can be availed by MSME Industries in Hyderabad to develop new products/process and software required by the customers and the society. Ministry of MSME, GOI, has approved MSME Incubation Centre at CBIT (A) to conduct various Programs. After studying the strengths and objectives, **ISIEINDIA** and **CBIT (A)** agreed that they can share the expertise available at both ends for mutual benefits in the field of education, training, social development and enter in MoU. Based on the discussion held among the faculty Members CBIT (A) and **ISIEINDIA** certain thematic areas / programmes has been identified for mutual collaboration. The Benefits of Skill Based Education are follows.

- Advanced & practical learning for the budding technocrats of India, through exclusively designed and developed programs by **ISIEINDIA**.
- Participants will get a 360-degree exposure i.e. Theoretical Knowledge, Hands on Experience, Industrial Skills & Career Building opportunities.
- Our main motive is to pour life-changing water (H<sub>2</sub>O+skill+development) to that seed to grow up as a perfect engineer for the mother earth.

It is further agreed that this agreement is being signed by the parties without any pressure, influence, or any type of compulsion. **CBIT (A)** and **ISIEINDIA** propose to collaborate through. Imperial Society of Innovative Engineers (**ISIEINDIA**) every year will conduct the following programs at CBIT (A) in every year based on mutual interest and discussion.

1. Summer Training Program (On Campus Training Program)
2. Online Training Program
3. Guest Lecture, Expert Lecture
  
4. Skill Development Program
5. Skill Awareness Program
6. Faculty Development Program
7. Academia Partnership Program on Electric Vehicle Engineering and Renewable energy with Specialization in Green Technology
8. Academia Partnership Program on Renewable Energy Engineering Imperial Society of Innovative Engineers (**ISIEINDIA**) will procure certified trainers and Industry expertise.
9. Academia Partnership Program on Specialization in Electric Vehicle Engineering (3 semester program). **ISIEINDIA** will provide certified trainers and faculties.

In consideration of the above recitals and the mutual benefits to be derived hereafter, the parties agree to enter into an Agreement as follows:

## **ARTICLE - I: Scope of the MoU**

This document outlines a strategic understanding between ISIEINDIA and CBIT (A) works together for Skill Based Education. The primary aim of this partnership is to aid FC in establishing a high- quality people repository in technology and allied fields. This will help CBIT to teach and train their students on strategic and innovation technologies and equip the students, faculty of the CBIT towards attaining skills in cutting-edge technologies in allied areas of engineering & technology.

## **ARTICLE - II: Scope and Terms of Interactions**

Both CBIT (A) and ISIEINDIA shall encourage interactions between both the Institutes, Students & Staff and Engineers, of both the organizations through the following arrangements:

1. Both CBIT (A) and ISIEINDIA will plan to work on Joint development projects of Mutual Interest and also explore for joint working on Govt. funded projects based on mutual agreement.
2. Practical training of CBIT (A) students at CBIT Campus / SMEV associates in the form of One-full Semester Internship at SMEV Associates Industries, by mutual agreement.
3. Joint guidance of student projects/thesis in various technical areas including Embedded Systems and related Technologies and other areas of national interest at CBIT (A) by ISIEINDIA on mutual agreement.
4. Summer Training Program (On Campus Training Program)
5. Online Training Program
6. Guest Lecture, Expert Lecture
7. Skill Development/awareness Program and Faculty Development Program
8. Academia Partnership Program on Electric Vehicle Engineering and Renewable energy
9. There will be no restriction on the contents of the project/report/thesis and on publication of results of the thesis, subject to the condition that no Intellectual Property Rights can be secured for any part of the work which will be decided with mutual consent.
10. If the outcome of an Internship or the Thesis work or the combined project results into an intellectual property, for which rights can be secured, it will be decided on case-to-case basis depending upon the contribution from both the Institution. Similarly, sharing of expenditure in securing such rights and income accrued through royalty etc. will be decided on case- to-case basis after mutual consultation and agreement.
11. CBIT should provide the following infrastructure facilities during this training program.
  - The needful infrastructure of class area, manpower and electrical connections for the classroom equipped with all essential necessities.
  - Necessary fabrication lab space & workshop along with tools. Necessary machines for fabrication process.
  - Accommodation, Hospitality and Local Transportation will be provided to all the trainers, experts, speakers and Guests based on mutual discussion.
12. ISIEINDIA will provide its social platform for the publicity of CBIT.
13. ISIEINDIA will provide hosting certificate to the CBIT.
14. The program execution will be done with mutual discussion and agreement of both the parties.

### **ARTICLE-III: Sharing of Facilities**

- a) ISIEINDIA shall extend its facilities for CBIT(A) students towards the smooth conduct of Internships, expert lecture and Projects depending on their convenience and availability of time & staff.
- b) ISIEINDIA provide access to the library facilities to the members of faculty and students as per the ISIEINDIA rules and norms.
- c) ISIEINDIA will also share its facilities with CBIT as per ISIEINDIA norms.

### **ARTICLE-IV: Effective Date and duration of the MoU**

- a) This MoU will be effective from the date of its approval by competent authorities at both ends.
- b) The duration of the MoU will be for a period of 2 years from the effective date which may be extended after mutual understanding. However, if any Important combined projects are under execution, both parties agree to complete the work even the MoU is not effective after two years.
- c) During its tenancy, the MoU may be extended or terminated by a prior notice of not less than one month by either party. However, termination of the MoU will not in any manner affect the interests of the students & faculty who have been admitted to pursue a Training/Project under the MoU.
- d) Any clause or article of the MoU may be modified or amended by mutual agreement of ISIEINDIA and CBIT(A).

### **ARTICLE - V: IPR**

Rights regarding publications, patents, royalty, ownership of software/design/product developed etc. under the scope of this MoU, will be decided by CBIT and ISIEINDIA based on Mutual agreement.

### **ARTICLE - VI: Confidentiality**

During the tenure of the MoU both CBIT(A) and ISIEINDIA will maintain strict confidentiality and prevent disclosure of all the information and data exchanged under the scope of this MoU for any purpose other than in accordance with this MoU.

Both CBIT(A) and ISIEINDIA shall bind their respective personnel who come into possession or knowledge of any confidential information not to disclose the same to third parties without written approval of the disclosing party or use such confidential information for any use other than intended under this agreement or PROJECTS. Further both CBIT(A) and ISIEINDIA should put in place adequate and reasonable measures to keep and store confidential information secure so as to prevent any unauthorized use.

CONFIDENTIAL INFORMATION shall mean any proprietary information, data or facts belonging to PARTIES collectively or severally, disclosed by the disclosing party under this agreement or any subsequent agreement, whether in writing, verbal or electronically, irrespective of the medium in which such information is stored, which is marked confidential or with any other words having similar meaning by the disclosing party, or specifically agreed to be kept confidential by the parties, or declared or identified so by the disclosing party before such disclosure or during the discussions. However confidential information should not include any data or information which:

- (a) is or becomes publicly available through no fault of the receiving party,
- (b) is already in the rightful possession of the receiving party prior to its receipt of such data or information;
- (c) is independently developed by the receiving party without reference to the confidential information of the disclosing party
- (d) is rightfully obtained by the receiving party from a third party or is in the public domain.
- (e) is disclosed with the written consent of the party whose information it is, or

- (f) is disclosed pursuant to court order or other legal compulsion, after providing prior notice to the disclosing party.

#### **ARTICLE - VII: Amendments**

Any amendment and/or addenda to the AGREEMENT should be in writing and signed by the PARTIES hereto and shall only after such execution be deemed to form part of the AGREEMENT and have the effect of modifying the AGREEMENT to the extent required by such amendment or addenda.

#### **ARTICLE - VIII: Compensation, Force Measure, Approval and Dispute Settlement**

##### **a) Compensation**

Neither Party shall be liable to the other for any incidental, indirect, special or consequential damages, including but not limited, to loss of profits, loss of use, loss of revenues or damages to business or reputation arising out of or in connection with this Agreement or any aspect thereof. Neither Party shall be liable to the other by reason of the termination or expiry of this Agreement for compensation or damages on account of the loss of prospective business or on account of expenditures in expectation thereof.

##### **b) Force Majeure**

Any delay or failure in performance by the party to this Agreement, shall not constitute default hereunder to give rise to any claims for damages against said party, if any, to the extent caused by matters beyond the control of said party including but not limited to acts of Nature, Strikes, Lock outs or other concerted acts of workmen, fires, floods, explosions, blockages, embargoes, riots, war (declared or undeclared), rebellion, sabotage, extraordinary severe weather, pandemic situation, civil commotion and criminal acts of third persons. If the project under execution is delayed by such force majeure, then upon the happening of such delay, the parties within 30 days of the happening of such event, shall give notice in writing, requesting for extension of time indicating the period for which extension is desired. Efforts will be made by both parties to give fair and reasonable extension of time for the projects at their discretion but no monetary allowances shall be made unless it is mutually agreed.

##### **c) Approval of the MoU**

This Agreement may be signed by authorized officials, whether by original signature or by scanned signature due to the current situation (provided the pdf documents accompanied with official email), signature/approval over official email, with the same effect as if the signature to any counterpart was an original signature upon the same instrument.

##### **d) Dispute and Settlement**

- i) In case of any dispute (s), steps shall be taken by the parties to the MOU to settle the same through amicable negotiations. In case, dispute is not settled in

negotiations, it shall be referred to Conciliator appointed by the designated official as per the bye law of CBIT(A), Hyderabad to arrive at a settlement.

In case dispute is not settled in conciliation proceedings, the same shall be referred to Arbitration for resolution of the dispute under Arbitration and conciliation Act 1996. The arbitration proceeding shall be conducted as per provisions of the Arbitration and Conciliation Act, 1996. The dispute shall be referred for arbitration to sole arbitrator to be appointed by the designated official (s) as per the bye law of CBIT(A) - Hyderabad. The award of the sole arbitrator shall be final and binding on both the parties. The venue of the Arbitration shall be at Hyderabad in India. The Award to be given by the Arbitration shall be a speaking award.

ii) Applicable Laws and Jurisdiction of Courts

Indian laws both substantive and procedural, for the time being in force, including modifications thereto, shall govern the MOU including the arbitral proceedings. The competent Courts at Hyderabad in the State of Telangana - India shall have sole jurisdiction. All questions, disputes, differences arising under, out of or in connection with this MOU shall be to the exclusive jurisdiction of Hyderabad courts in the State of Telangana.

On behalf of

*G.P.S.*  
Chaitanya Bharathi Institute of Technology  
CBIT (A), Hyderabad

By: Principal  
Name: Chaitanya Bharathi Institute of Technology  
(Autonomous)  
Gandipet, Hyderabad-500 075.

↑  
Prof. *G.P.S. Verma*

Witness:

*[Signature]*  
(Dr. G. SURESH BABU)  
**HEAD**  
Uopt. of EEE, CBIT (A)  
Gandipet, Hyderabad - 75



On behalf of



Imperial Society of Innovative Engineers  
ISIEINDIA, Noida

By: Founder & President  
Name: Vinod K Gupta

Witness:

# Memorandum of Understanding

Between

**Hexagon Capability Center India Private Limited**

And

**Chaitanya Bharathi Institute of Technology, Hyderabad**

This Memorandum of Understanding is entered into and effective as of 25<sup>th</sup> July 2017, by and between:

"Hexagon Capability Center India Private Limited", a company incorporated under the provisions of the Companies Act, 1956, with its office at DivyaSree Trinity Campus, HITEC City, Madhapur, Hyderabad, India – 500 081, hereinafter called the "Hexagon" and represented by **Mr. Shankar Muthuswamy, Company Secretary**, acting in accordance with the Decision of the Board, which expression shall unless repugnant to the meaning or context thereof be deemed to mean and include its successors and permitted assigns of, on one part,

And

**Chaitanya Bharathi Institute of Technology**, (hereinafter referred to as "CBIT") having its Campus at Gandipet, Hyderabad and represented by **Mr. B Chennakeshava Rao, Principal**, acting in accordance with the decision of its Governing Body, on second part

## Recitals.

- a. **Hexagon** is in the business of Software development and other allied business for its Clients worldwide.
- b. **CBIT** is India's premier teaching cum research oriented institution offering various Technological Degrees
- c. Whereas CBIT is planning to set up a Lab center at CBIT campus in Gandipet Hyderabad, in order to impart practical knowledge and technical training in the cutting-edge technologies to the students which would enable them to gain hands on experience in the latest technologies employed in the Industries
- d. Whereas Hexagon under its CSR policy is committed to improving the quality of education which benefits the students in particular and the society in general by contributing to educational infrastructure, training and facilities through partnership with institutions, colleges, universities, and government and quasi-government agencies.

*B Chennakeshava Rao*  
25/7/17

*Shankar Muthuswamy*

NOW THIS MEMORANDUM WITNESSETH as follows:

1. Hexagon and CBIT have agreed in principle to jointly setup a Lab at CBIT campus each with the following responsibilities:
  - a. Responsibilities of CBIT:
    - i. create/provide a proper Lab space in their campus to accommodate around 20 persons
    - ii. equip the Lab with proper furniture, light/electrical fittings, Lan and Internet cabling/connectivity
    - iii. to procure the required software licenses that are necessary for the training
    - iv. to take care of the Trainers' travel and stay expenses
    - v. any other expenses that may be required for an efficient functioning of the Lab which may be mutually discussed and agreed
  - b. Responsibilities of Hexagon:
    - i. Provide 20 desktops with monitors with appropriate configuration with OS and Office 2010 licenses
    - ii. Provide upgrades on hardware/software on need based
    - iii. any other expenses that may be required for an efficient functioning of the Lab which may be mutually discussed and agreed
2. **Confidentiality:** Each Party shall maintain complete confidentiality of any information of the other, disclosed ("Confidential Information"), either directly or indirectly in any form whatsoever including, but not limited to, in writing, in machine readable or other tangible form, orally or visually (subsequently reduced to writing). Both Parties undertake to (i) hold all such Confidential Information in strictest confidence, (ii) not to disclose such Confidential Information either in whole or in part to any person other than those of its officers, employees and agents who need to know the Confidential Information for the purpose authorized hereunder provided that each such officer, employee or agent has agreed in writing to maintain the confidentiality of the Confidential Information in accordance with the terms hereof or (iii) not to use such Confidential Information for any purpose whatsoever save as may be strictly necessary for the performance of this Agreement.
3. **Intellectual Property Rights:** IPR titles or ownership of any products, proprietary information or technology tools, processes, utilities, and methodology including any Hexagon proprietary products or components thereof used hereunder or development of any deliverables and all new ideas, inventions, innovations, or development conceived, developed, contributed, distributed or made by Hexagon hereunder, and all customizations, enhancement and modifications thereof, shall always remain with Hexagon and WILL NOT BE transferred from Hexagon to CBIT on account of use of the same as part of any work under this Memorandum, and
4. In no event shall either party be liable for any indirect, incidental, special, consequential damage, including, but not limited to, loss of profits, revenue, data or use, incurred by the other Party in connection with, arising out of or under this Memorandum save for any such loss suffered resulting from any willful and grossly negligent act or omission of either of the Parties.

 25/2/12





5. Neither this Memorandum, nor any activities described herein, shall be construed as creating a partnership, joint venture, agency or other such relationship. Both Parties agree that this Memorandum represents a nonexclusive relationship between the Parties and nothing contained herein shall preclude either Party from participating / initiating similar relationship with third parties in future.
6. Neither Party shall issue any press release, public announcement or other such disclosure concerning this Memorandum without the other Party's prior written consent as to such release or announcement.
7. This Memorandum may not be amended without the prior written consent of both the Parties.
8. This Memorandum shall be effective from the effective date and shall be valid for a **term of 3 years**. This Memorandum can be renewed based on mutual convenience any time.
9. **Governing Law:** This Memorandum shall be governed by the laws of India, and the Courts in Hyderabad shall have exclusive jurisdiction.
10. **Termination:** Either Party can cancel or terminate this Memorandum unilaterally (and without reason), by giving an advance written notice of one (1) month to the other Party.
11. **Notices:** All notices, requests, demands and other communications under this Memorandum or in connection herewith shall be given to or made upon the respective Parties as follows:

<b>Hexagon</b>	: "Hexagon Capability Center India Private Limited" Plot No.5, DivyaSree Trinity Campus,HITEC City, Madhapur, Hyderabad, India – 500 081
<b>CBIT</b>	: Chaitanya Bharathi Institute of Technology, Ocean Park Rd, Kokapet Village, Gandipet Mandal, Rangareddy District, Hyderabad - 500075

Or to such other person or addresses as any of the Parties shall have notified to the others.

All notices, requests, demands and other communications given or made in accordance with the provisions of this Memorandum shall be in writing by letter, fax or telegram.

## 12. FORCE MAJEURE:

If either of the two Parties is prevented, restricted, delayed or interfered by reason of:

- a) Fire, explosion, cyclone, floods, droughts, earthquakes, epidemics;
- b) War, revolution, acts of public enemies, blockage or embargo, riots and civil commotion;

*Handwritten signature and date: 25/7/17*

*Handwritten signature*

- c) Any law, order, proclamation, ordinance or requirements of any Government or authority or representative of any such Government, including restrictive trade practices or regulations;
- d) Strikes, shutdowns or labor disputes which are not instigated for the purpose of avoiding obligations herein; or
- e) Any other circumstances beyond the reasonable control of the party affected, then notwithstanding anything here before contained, the party affected shall be excused from its performance to the extent such performance relates to prevention, restriction, delay or interference and provided the party so affected used its best efforts to remove such cause of non-performances, and when removed the party shall continue performance with the utmost dispatch.

Each of the Parties agrees to give written notice to the other Party upon becoming aware of an Event of Force Majeure, and mentioning details of the circumstances giving rise to the Event of Force Majeure as soon as possible, but not later than three (3) business days from the moment it became aware of.

13. **Indemnity:** Each of the Parties shall defend, indemnify and hold the other Party harmless from and against any claim, liability, loss, costs or expenses (including reasonable Attorney's fees) arising out of or resulting from the material breach of the provisions herein.

**IN WITNESS WHEREOF THE** Parties have set their hands hereto on the day and year first hereinabove written under their respective seal of office.

**CBIT**

**Hexagon**

**"Hexagon Capability Center India Private Limited",**

DivyaSree Trinity Campus, HITEC City,  
Madhapur, Hyderabad, India – 500 081

(Signature)

**Mr. Shankar Muthuswamy,**  
**Director - Finance & Company Secretary**

(Signature)

**Mr. B Chennakeshava Rao,**  
**Principal, CBIT**

# Memorandum of Understanding Between

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, HYDERABAD (A)**

**AND**

**7S TECHNOLOGIES**



Technology for Human Care

This **Memorandum of Understanding**\_ (“MOU” also called “Agreement”) is made as of the 16<sup>th</sup> of April, 2020 between **Chaitanya Bharathi Institute of Technology, Hyderabad** (here in after called “**CBIT(A)**” or “**Institute**”) and **7S TECHNOLOGIES** having its Registered Office at 5-3-419, first floor G.J. HOUSE, JEERA- Secunderabad Hyd-03, (TS) INDIA.

## 1. Introduction

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (CBIT (A)), established in the Year 1979, esteemed as the Premier Engineering Institute in the States of Telangana and Andhra Pradesh, was promoted with an Objective to facilitate the Best Engineering and Management Education to the Students and contribute towards meeting the need of Skilled and Technically conversant Engineers and Management Professionals, for the Country that embarked on an Economic Growth Plan. In its four decades of existence, all the Stake Holders of the Institute relentlessly endeavored to position CBIT (A) as an Institution that is a Leader and an Innovator in the Ecosystem of Engineering Higher Education and Management. With the Students being the singular Objective, the Institute has established excellent Infrastructure such as State-of-the Art Laboratories, spacious Library with Printed and Digital Collection of Books and Journals, Sports, Hostel, and other Infrastructure for Research,

Innovation, Incubation, Entrepreneurship, Extra and Co-Curricular Engagements with a total built-up Area of about 57,714 Sq. Mts., in the serene Ambience of 50 Acres to inspire, encourage and pursue Academics. In its relentless strive for Academic excellence; CBIT (A) has scaled great heights both nationally and internationally in Industry and Global Universities.

**7S TECHNOLOGIES** manufacture of life saving products focused on current needs of the society and the Industry.

## **2.0 Recitals**

'7S TECHNOLOGIES' is interested in engaging with CBIT (A) in areas of mutual interest as framework outlined below but not necessarily restricted to those mentioned in 2.1 to 2.3.

CBIT (A) is having faculties with expertise in the area of Electrical, Mechanical, ECE, Bio-Tech, Chemical, CSE, IT and other emerging technologies areas, whose services can be availed by MSME Industries in Hyderabad to develop new products/process and software required by the customers and the society. Ministry of MSME, GOI, has approved MSME Incubation Centre at CBIT (A) to conduct various Programs. The services of Experts available with CBIT (A) can be availed by '7S TECHNOLOGIES' an MSME, to develop new products/process and incubate new ideas required by the customers and the society. The Proposed Interaction will also help students of CBIT (A) to have industry interaction and involvement in development projects taken up by 7S TECHNOLOGIES along with CBIT (A) or live projects being carried out by 7S TECHNOLOGIES for other organizations under their internship. The industrial visits by the students will provide them with an exposure to various equipment, design, software and manufacturing/business process etc.

2.1 Innovative designs and development in the lighting domain of various utility systems.

2.2 Development of Innovative products related to energy conservative to sector which will be useful to society.

2.3 Product development of in the arena of Industrial Automation. Embedded Systems, Intelligent Lighting Systems, Telecommunication, Robotics, Mechatronics and Multi-Disciplined Projects for Defence Applications.

In consideration of the above recitals and the mutual benefits to be derived hereafter, the parties agree to enter into an agreement as follows:

#### **ARTICLE – I: Scope of the MoU**

2.1 This MoU details the modalities and general conditions regarding collaboration between CBIT (A) and 7S TECHNOLOGIES for enhancing, within the country, the availability of highly qualified manpower in the areas Industrial Automation. Embedded Systems, Intelligent Lighting Systems, Telecommunication, Robotics, Mechatronics and Multi-Disciplined Projects for Defence Applications. etc. The area of interaction will also include training and internship of CBIT (A) students to work on live projects at 7S TECHNOLOGIES The areas of cooperation can be further extended through mutual consent.

#### **ARTICLE – II: Scope and Terms of Interactions**

Both CBIT (A) and 7S TECHNOLOGIES shall encourage interactions between the Institutes, Students, Staff and Engineers, of both the organizations through the following arrangements:

1. Practical training of CBIT (A) students at 7S TECHNOLOGIES in the form of One-full Semester Internship.
2. Joint guidance of student projects/thesis in various technical areas including Embedded Systems, related Technologies and other areas of national interest at CBIT (A) by 7S TECHNOLOGIES on mutual agreement.
3. 7S TECHNOLOGIES may depute its personnel as visiting faculty at CBIT (A) to supplement the teaching of any specialized topics.
4. 7S TECHNOLOGIES will allow the industrial visits of students for half/full day to provide them with an exposure to various equipment, instrument, etc.
5. 7S TECHNOLOGIES may be allowed to showcase its business activities at the Seminar/Workshop/Conference, etc. if possible, at CBIT (A) that will be conducted time-to-time, with necessary permission from CBIT (A).

6. 7S TECHNOLOGIES may avail library facilities at CBIT (A) for combined projects for students' project work with necessary permission from the Institute.
7. There will be no restriction on the contents of the thesis and on publication of results of the thesis, subject to the condition that no Intellectual Property Rights can be secured for any part of the work which will be decided with mutual consent.
8. If the outcome of a project related to product development, process technology and design etc. which involves matter of secrecy and concern with security of the State and the Country, the same will not be allowed for publication/printing in any form such as Electronically/verbal, etc.
9. If the outcome of an Internship or the Thesis work or the combined project results into an intellectual property, for which rights can be secured, it will be decided on case-to-case basis depending upon the contribution from both the Institution. Similarly, sharing of expenditure in securing such rights and income accrued through royalty etc. will be decided on case- to-case basis after mutual consultation and agreement.

### **ARTICLE-III: Sharing of Facilities**

- a) 7S TECHNOLOGIES shall extend its facilities for CBIT (A) students towards the smooth conduct of Internships and Projects depending on their convenience and availability of time & staff.
- b) CBIT (A) and 7S TECHNOLOGIES may explore to share their respective important R&D facilities in order to promote academic and research interaction in the areas of cooperation depending upon availability of such facility without affecting their regular working.
- c) CBIT (A) and 7S TECHNOLOGIES will permit the sharing software and other components developed during any combined project work in the areas of cooperation, if permissible within the rules governing the two institutions. However, responsibility regarding confidentiality terms of the software and other materials during the exchange will rest on respective Head of department of the branch/section and 7S TECHNOLOGIES.
- d) 7S TECHNOLOGIES provide access to the library facilities to the members of faculty and students as per the prevailing rules and norms.

#### **ARTICLE-IV: Effective Date and duration of the MoU.**

- a) This MoU will be effective from the date of its approval by competent authorities at both ends.
- b) The duration of the MoU will be for a period of 5 years from the effective date which may be extended after mutual understanding. However, if any Important combined projects are under execution, both parties agree to complete the work even the MoU is not effective after two years.
- c) During its tenancy, the MoU may be extended or terminated by a prior notice of not less than one month by either party. However, termination of the MoU will not in any manner affect the interests of the students & faculty who have been admitted to pursue a Training/Project under the MoU. Any clause or article of the MoU may be modified or amended by mutual agreement of 7S TECHNOLOGIES and CBIT (A).

#### **ARTICLE - V: IPR**

Rights regarding publications, patents, royalty, ownership of software/design/product developed etc. under the scope of this MoU, will be decided by CBIT (A) and 7S TECHNOLOGIES based on Mutual agreement.

#### **ARTICLE – VI: Confidentiality**

During the tenure of the MoU both CBIT (A) and 7S TECHNOLOGIES will maintain strict confidentiality and prevent disclosure of all the information and data exchanged under the scope of this MoU for any purpose other than in accordance with this MoU.

#### **ARTICLE – VII: AMENDMENTS**

Any amendment and/or addenda to the AGREEMENT should be in writing and signed by the PARTIES hereto and shall only after such execution be deemed to form part of the AGREEMENT and have the effect of modifying the AGREEMENT to the extent required by such amendment or addenda.

## **ARTICLE – VIII: Compensation, Force Measure, Approval and Dispute Settlement**

### **a) Compensation**

Neither Party shall be liable to the other for any incidental, indirect, special or consequential damages, including but not limited, to loss of profits, loss of use, loss of revenues or damages to business or reputation arising out of or in connection with this Agreement or any aspect thereof. Neither Party shall be liable to the other by reason of the termination or expiry of this Agreement for compensation or damages on account of the loss of prospective business or on account of expenditures in expectation thereof.

### **b) Force Majeure**

Any delay or failure in performance by the party to this Agreement, shall not constitute default hereunder to give rise to any claims for damages against said party, if any, to the extent caused by matters beyond the control of said party including but not limited to acts of Nature, Strikes, Lock outs or other concerted acts of workmen, fires, floods, explosions, blockages, embargoes, riots, war (declared or undeclared), rebellion, sabotage, extraordinary severe weather, pandemic situation, civil commotion and criminal acts of third persons.

### **c) Approval of the MoU**

This Agreement may be signed by authorized officials, whether by original signature or by scanned signature (provided the pdf documents accompanied with official email), signature/approval over official email, with the same effect as if the signature to any counterpart was an original signature upon the same instrument.

### **d) Dispute and Settlement**

- i) In case of any dispute (s), steps shall be taken by the parties to the MOU to settle the same through amicable negotiations. In case, dispute is not settled in negotiations, it shall be referred to Conciliator appointed by the designated official as per the bye law of CBIT (A), Hyderabad to arrive at a settlement.



ii) Applicable Laws and Jurisdiction of Courts

Indian laws both substantive and procedural, for the time being in force, including modifications thereto, shall govern the MOU including the arbitral proceedings. The competent Courts at Hyderabad in the State of Telangana - India shall have sole jurisdiction. All questions, disputes, differences arising under, out of or in connection with this MOU shall be to the exclusive jurisdiction of Hyderabad courts in the State of Telangana.

**For**

**7S TECHNOLOGIES**  
Secunderabad,  
Hyderabad

*P. Chandra Shekar*



**By**

**Name: Dr. P. Chandra, Shekar**  
Technical Director 7S Technologies

**Witness:**

**For**

**Chaitanya Bharathi Institute of Technology (A)**  
Hyderabad

*[Handwritten Signature]*

Principal

Chaitanya Bharathi Institute of Technology  
(Autonomous)

Gandipet, Hyderabad-500 075

**Name**

**Principal**



**Witness:**

*[Handwritten Signature]*

**HEAD**

Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad - 75


**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD-75**  
**Department of Electrical and Electronics Engineering**

7S Technologies CEO Dr. Chandra Shekar's visit and interaction with the Faculty and students of EEE Dept. CBIT(A) during a seminar on 22/10/2021



**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A), HYDERABAD-75**  
**Department of Electrical and Electronics Engineering**



  
**HEAD**  
Dept. of EEE, CBIT (A)  
Gandipet, Hyderabad - 75

**MEMORANDUM OF UNDERSTANDING**

**BETWEEN**

**CHAITANYTA BHARATHI INSTITUTE OF TECHNOLOGY (A)  
GANDIPET, HYDERABAD – 500075**

**AND**

**SMART BUILT PREFAB PVT LTD**

**Regd. Office: Villa No. 19,, SRR Ridge Villas Opp Ginger  
Restaurant, Bachupally, Medchal, Hyderabad,  
Telangana, 500090**

This memorandum of Understanding (MoU) is executed on this 10th day of December 2020 between Smart Built Prefab Pvt. Ltd.: Villa No.19,SRR Ridge Villas Opp Ginger Restaurant,, Bachupally,Medchal, Hyderabad, Telangana, 500090 represented by its director and Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad. Herein after referred to as CBIT through its authorized representative.

#### **PREAMBLE**

Whereas, CBIT all its various engineering and sciences departments is charged with responsibility of training technical and scientific manpower in various front-line areas of National importance and is also contributing to the rapidly growing scientific and Technological knowledge and professional excellence in Science & Technology by undertaking industrial & applied research and consultancy.

WHEREAS, SMART BUILT PREFAB is engaged in prefab industry ,manufacturing Precast concrete and Prefab Elements to provide innovative prefab solutions for social amenity buildings, low cost housing, readymade boundary walls, rural housing and prefab industrial structures.

WHEREAS both CBIT and SMART BUILT PREFAB, now

Recognizing the importance of research and development in the areas Prefab/Precast industry desiring to club their efforts by pooling their expertise and resources,

INTEND to give cost effective and innovative prefab solutions for various social infrastructure buildings and prefab solutions for industrial buildings, form a nucleus for identifying and promoting new technologies by conducting tests on various prefab components and checking the design and construction methodologies

NOW, THEREFORE, in consideration of the mutual promises made and of good and valuable consideration, the receipt and sufficiency of which both CBIT and SMART BUILT PREFAB hereby acknowledge, CBIT and SMART BULIT PREFAB hereby agree to sign a memorandum of understanding (MOU).

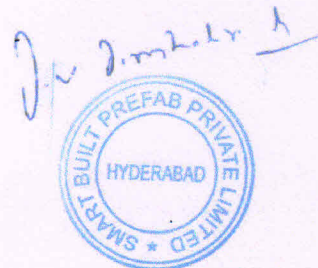
#### **ARTICLE-I: SCOPE OF THE MOU**

This MOU details the modalities and general conditions regarding collaboration between CBIT (Primarily through its department of civil engineering) and SMART BUILT PREFAB for research and development in finding innovative cost effective prefab/precast solutions. The areas of cooperation can be extended through mutual consent.

#### **ARTICLE-11: SCOPE AND TERMS OF AGREEMENT**

Both CBIT (Civil Engineering Department) and SMART BUILT PREFAB shall encourage development and identification of prefab technologies and conduct various tests and design analysis on in house developed components and market available components to customize best solutions based on need of application needs.

CBIT shall make the provision to share their respective Lab and R&D facilities to check the strength of various prefab components developed by SMART BUILT PREFAB to ascertain the performance.



Cost of consumables and overhead costs like technicians and labour while conducting the tests in lab will be borne by SMART BUILT PREFAB.

Cost of site visit to ascertain the performance of prefab structures built by SMART BUILT PREFAB will be borne by SMART BUILT PREFAB PVT. LTD.

The MoU shall be effective from date ID approval from competent authorities of both ends

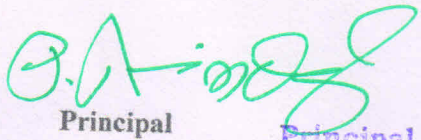
The duration of this MOU shall be for period of 2 years from the date of approval.

During the tenure of the MOU both CBIT and SMART BUILT PREFAB will maintain strict confidentiality and prevent disclosure of all the information and data exchanged under the scope of this MOU for any purpose other than in accordance with this MOU.

#### ARTICLE-111 : RESOLUTION OF DISPUTES

- a) This agreement shall take effect and be construed in accordance with the Laws of India and be subject to the jurisdiction of the courts at HYDERABAD.
- b) The dispute or differences whatsoever arises between PARTIES in relation to or in connection with this AGREEMENT both the parties shall first try to resolve the dispute/difference amicably between themselves, failing which the matter shall be referred to and settled through arbitration. The arbitration proceedings shall be held in accordance with the provision of Indian Arbitration and Reconciliation ACT, 1996. The venue of arbitration shall be Hyderabad and Language of arbitration shall be English.

IN WITNESS WHEREOF PARTIES HERE TO HAVE ENTERED INTO THIS AGREEMENT EFFECTIVE AS ON THE DATE AND YEAR FIRST WRITTEN ABOVE.



Principal

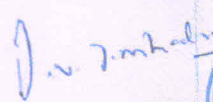
Principal

Cbit

Chaitanya Bharathi Institute of Technology  
(Autonomous)  
Gandipet, Hyderabad-500 075.


Director

Smart Built Prefab Pvt, Ltd. Hyderabad

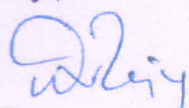


Witness :

1) Dr K Jagannadha Rao Head CED



2) Sri D. Venkatapathi Raju Director



# MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as MOU) is signed on **16<sup>th</sup> Jan, 2020** by and between

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY** herein referred as **CBIT (A)** located at Gandipet, Hyderabad-500075, (FIRST Party)

And

**SWECHA**, a non-profit for organization herein called SWECHA located at SVK, beside CGG, SY No. 91, Gachibowli, Hyderabad-32, (SECOND Party)

Whereas CBIT(A) is the first private engineering college in Telangana, established in 1979 was promoted with an objective to facilitate the Best Engineering Education to the Students.

SWECHA, a non-profit for organization founded in 2005 to support SWECHA project. It is community of Software users, students, academicians, and Software professionals/developers determined to provide quality software built on the guidelines of free software development models and it is part of Free Software Movement of India.

AND whereas, the parties recognize each other's competencies and hereto agree that a strategic relationship between them will mutually benefit each other.

**NOW this MOU aims to capture the understanding reached between SWECHA and CBIT (A) regarding each other's roles and responsibilities.**

## **I) UNDERSTANDING:**

This MOU is intended to cover a specific collaborative effort between SWECHA and CBIT(A) to make the student's industry ready by introducing several programs.

## **II) ROLES AND RESPONSIBILITIES:**

### **Role of SWECHA:**

- To provide awareness on Free and Open Source Software.
- Collaboration and guidance on curriculum development
- To create Research awareness through open knowledge systems, discussion sessions, open talks, seminars, guest lectures, Workshops, Faculty development Programs, Conferences etc.
- Technical support for infrastructure design and implementation.
- Industry-oriented training programs, Internships, Hackathons, social impact projects, community services.
- To explore the possibilities of mutual support between the Institute and Industry in learning, hiring, and research requirements based on mutual convenience.
- To provide offline and Online Training with Certifications on emerging technologies, Competitive Coding.
- To provide regular inputs for up-gradation of the Course curriculum to suit the

industry requirements.

**Role of CBIT (A):**

- CBIT shall provide infrastructure to support the activities.
- CBIT shall nominate one or two faculty members as SPOCs for the smooth conduction of events.
- CBIT shall give a minimum of two to three weeks prior information for conducting any program in association with SWECHA.
- CBIT shall give opportunity to host national or international events that are mutually benefit to each other.

**III) GENERAL AND VALIDITY**

- a) The agreement between SWECHA and CBIT would be for a period of ONE year.
- b) This MOU may be amended, renewed, and terminated by mutual written agreement of the SWECHA and CBIT at any time with prior intimation.
- c) Unless otherwise agreed by the Parties separately in writing, each Party will be responsible for its own individual costs in conducting its duties and obligations under this MOU.
- d) Either SWECHA or CBIT shall have the right to terminate this MOU upon 60 days prior written notice to the other party.

**Summary:**

IN WITNESS WHEREOF, each of the parties hereto has caused this MOU to be duly executed by a duly authorised representative of such party as of the date first above written

**SWECHA**



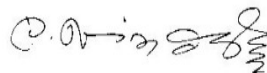
Signature:

Name: D Bhuvan Krishna

Title: General Secretary

Date: 16<sup>th</sup> Jan 2020

**Chaitanya Bharathi Institute of Technology**



Signature:

Name: Dr.P.RAVINDER REDDY

Title: Principal

Date: 16<sup>th</sup> Jan 2020