

## **Department of Chemical Engineering**

On 27-01-2021, CBIT signed MoU with M/s. Biosephia Engineering Services (BES), Hyderabad with the aim to Joint working on Research Projects, Start-up Creation, and Internship Program for students.

#### **Activities Report**

- 1) Mr. Himanshu, M.D, was honoured by CBIT as Outstanding Alumnus of Chemical Engg Dept on 25-12-2021
- 2) Ms. Sindhuja was Guest of honour and session chair during SUDHEE CHEMSPARK-2022 on 24-02-2022
- 3) Ms. Sindhuja delivered Invited talk on "Circular Economy & Sustainability and Internship
- 4) Opportunities at Biosephia" to for students and staff of Chemical Engg Dept., CBIT on 21-06-2022.
- 5) Ms. Sindhuja and Mr. Himanshu were internship supervisors for 14 students, during 2022-23
- 6) Ms. Sindhuja is Member, Department Advisory Board, Chemical Engg., CBIT, academic year 2022-23 onwards.
- 7) Mr. Himanshu, is Member, Department PAQIC, Chemical Engg., CBIT, academic year 2022-23 onwards
- 8) Ms. Sindhuja was mentor and supervisor for two teams (IV sem students) to present at Ideathon 2023 by ACIC-CBIT on 25-04-2023.

HOD – Chemical Engg Dept., CBIT

## Chemical Engineering Department Outstanding Alumni Awardee on 25-12-2021

As part of Institute Alumni meet "Rejoicing Reunion", the department communicates to all the alumni and invite them to alumni meet on 25th Dec every year to celebrate alumni success, strengthen the bond and evolve ways as to form mutual beneficial relationships. The institute selects and honors its Alumni for their contributions to the department and institute.



Mr. Himanshu Vemula (Batch 2016) Business Manager - Biosephia Hyderabad

HoD - Chemical Engg



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## Meeting regarding the internship programme

Biosephia engineering services <solutions.bes@gmail.com>

Sun, Aug 7, 2022 at 3:38 PM

To: centrehead\_acic@cbit.ac.in, nagaprapurna\_chem@cbit.ac.in, prasannarani\_chem@cbit.ac.in Cc: vineshnayaki95@gmail.com, Himashika Vemula <himashikavemula@biosephia.com>

Respected all.

As discussed, scheduled the meeting regarding the internship programme for upcoming 3rd year students for about 2 weeks.Please find the meeting link below.

ACIC-CBIT- BES meeting Monday, August 8 · 11:00am - 12:00pm Google Meet joining info

Video call link: https://meet.google.com/gor-hiiz-kec

Looking forward to connecting with you.

Regards Team-BES

Regards,



Contact - 1. Ms. Sindhuja Talla - +918106112215

2. Mr. Vinesh Nayaka - +919959091338

For any reference: www.biosephia.com

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6/30/23, 1:57 PM C.B.I.T Mail - Intern list



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#### Intern list

Biosephia engineering services <solutions.bes@gmail.com>

Thu, Jul 7, 2022 at 2:09 PM

To: prasannarani\_chem@cbit.ac.in

Dear Ma'am.

As per your request regarding the Internship for 2nd year CBIT Chemical Engineering students, I hereby share you the selected student list.

- 1. Suryadevara kalyan sai
- 2. Kantrapally Chandrakanthreddy
- 3. A.Shashi Preetham
- 4. Aman Dubey
- 5. Prakash Chinthala
- 6. M.Sai Vamsi Krishna
- 7. Udesh
- 8. ARSHID OMESH
- 9. Dhanush Chengal
- 10. Jadav Jagadeesh
- 11. Nishitha Reddy Nomula
- 12. Banoth upendar
- 13. Shaik Mounisha Begum
- 14. Pranay kumar
- 15. Pithani alekhya

The project/ task and teams will be assigned later. I will update you as soon as possible.

Regards Sindhuja Talla

Regards,



Contact – 1. Ms. Sindhuja Talla - +91 8106112215

2. Mr. Vinesh Nayaka - +91 9959091338

3. Mr. Himanshu - + 91 8019759255

For any reference: www.biosephia.com



#### **ABSTRACT**

The primary objective of this study is to investigate the waste management process at Ravula paly gram panchayat. We concerned on the present situation: sources of waste generation, processes used to manage solid waste, effectiveness of process, effects and impacts on public health, recycling or disposal of waste. Then we have made some recommendations which will help the public to use their waste to create new revenue or to convert it to useful products like manure.

#### **INTRODUCTION:**

Ravulapally is a small village in Shankar ally mandal, rangareddi district, Telangana. The total population of this village is 2068 and the total number of houses in the village are 558. The total area of the village excluding agriculture fields is nearly 30 acres (only includes household). And the agriculture land is about 150-180 acres of land and the major crop is paddy and corn. 80% of the occupation in this village is agriculture only.

We have visited to this village in order to know what types of waste is being generated, how the waste is being collected, and what are they doing with that waste. Do the village is following any waste management techniques or not, do the villagers have any idea about waste management and any of the simple techniques (like composting) or not. If not, we can create awareness on this waste management to these villagers.

Firstly, we had conversations with self-help group members of around 20 women. They said that they don't know about any of the waste management techniques like composting and biogas production from waste. So, we explained about waste management and its uses like preparation of manure (natural fertilizer) and biogas. They really willing to learn about waste management and they willing to provide support. We conducted survey starting with self help group members then with all the villagers and gram panchayat secretary.



## **SURVEY:**

Through the survey it is found that all the villagers are not aware of waste management techniques but they do have segregating their household waste from their homes itself. Around 80% villagers are segregating their household waste as dry and wet waste. As the

government provided 2 dust bins to all the people, it created awareness among the villagers to segregate the waste as dry and wet. The waste collectors are coming alternative days to pick up waste in the villagers with 1 tractor in which there is two compartments so that they collect dry and wet waste separately. During survey villagers said even though if we didn't segregate the waste, the waste collectors are themselves segregating waste. This waste being disposed outside of the village. During some gatherings like marriage functions etc. the waste generation is more, so the villagers call the waste collectors to pick up and they respond quickly without asking or taking any extra money for this.



In this village there are no bulk generators like hotels etc. Mostly the waste generated in this village is household waste and agriculture waste. For each and every village there is one segregation shed. In there the gram panchayat workers are composting the waste and producing the manure. This manure is being used in the plantation purpose under PALLE PRAKRUTHI VANAM program.



The workers wages are around 8500/- they are like multipurpose workers. There is one primary health care centre in the village but there is no much medical waste from the village. There are majorly 3 temples in this village which produces huge amount of waste such as flowers and coconut fibers.

#### PROBLEMS FACING BY VILLAGERS:

The villagers said that before 3 months the waste collectors are usually came daily to pick up the waste but now they are coming alternative days because the tractor is not filling up with waste completely if they going daily to collect waste. This leads to the transportation cost issues therefore they are coming alternative days to save the transportation cost. And some times during rainy days the waste collectors do not show up. This leads to the increase in waste in all households and the villagers are dumping this waste in plain lands far away from homes. Due to this they are facing health issues.



#### **CHALLENGES IN WASTE MANAGEMENT:**

As per the government rule gram panchayat can assign 1 worker for 500 people. In this village the population is about 2068 so they can assign 5 workers but for this village the gram panchayat is having of staff only 3 members. This is because people are not willing to do work as worker under gram panchayat. This is the major problem in this village. Due to the shortage of staff, a worker from outside is doing the dry segregation like glass and plastic by himself and selling these glass waste to the recycling centers and earning income 1000-2000 rupees weekly. If the gram panchayat has enough workers, then they can do by themselves and can produce income. The gram panchayat is only working on composting the waste with those workers.

All the farmers in the villagers, the waste generated like paddy, cornstalks after harvesting, are either giving that waste to the cattle owners or burning it near the fields itself. They are not utilising the agriculture waste for other purposes like producing bioplastics, mushroom packaging. There is no awareness among the farmers that they generate income through the agriculture waste too.

Through the temples there is huge waste generation of flower waste and coconut fibers but the temple heads are not accepting to collect these wastes by waste collectors. Because they do not want to mix this temple waste with normal household waste due to their beliefs. Therefore, they are throwing this waste in the wells and nearby canals. They are also not willing to use this waste for composting purpose.

There are some issues in arranging the community basis drums or bin in the village, because the villagers don't want to keep these bins near their houses as it may produce some health problems due to the mosquitoes and other harmful microorganisms.

#### **CONCLUSIONS:**

The Ravulapally villagers have the awareness on basic segregation of waste. But they do not have any idea on producing useful products from the waste. After knowing about those techniques from us they are really interested and willing to do this work. The village gram panchayat also taking so many measures to create awareness by announcements through speakers, through pamphlets on segregation, and conducting gram sabhas. They are also creating awareness through self-help groups (SHG).

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The government is also providing support

to this village by providing waste collector tractor, bins, composting sheds etc.

They are really showing more interest in composting techniques as they do in their houses but at the same time, they some doubts on composting waste in the houses that this creates any infections or health issues to the house members. But we have clarified all these doubts they are interested in providing support for the waste management.

We also created awareness in farmers that the waste generated from the fields is not at all waste we produce many things through this waste and they decided to not to burn the waste.

By doing the ground level analysis in this village, it is found that agriculture and household is the major waste. Through the agriculture waste we can produce bioplastics and mycelium packaging .Through the house hold waste we can do composting and can produce manure which is useful for the agriculture fields. There is more scope for these three techniques of waste management in this village.



## Reg: Invited Expert Lecture on 21st June 2022 FN

1 message

Smt.P.Madhuri Assistant Professor <pmadhuri\_chem@cbit.ac.in>

Cc: Chemical HEAD < hod chem@cbit.ac.in>

Mon, Jun 20, 2022 at 11:21 AM

To: bechem20-21@cbit.org.in, "Dr.P.V.Naga Prapurna Associate Prof." <nagaprapurna\_chem@cbit.ac.in>, "Dr. Mekala Mallaiah Associate Professor (Contract)" <mallaiah\_chem@cbit.ac.in>, balakrishna i <ibk@cbit.ac.in>, "Smt.P.Madhuri Assistant Professor" chem@cbit.ac.in>, "Sri K.Prasad Babu Assistant Professor"
<kprasadbabu\_chem@cbit.ac.in>, "Dr.B.Ganesh Assistant Professor" <br/>
<br/>
<harshanagar\_chem@cbit.ac.in>, Swapna V <vswapna\_chem@cbit.ac.in>, "prasannarani\_chem Asst. Professor"<br/>
cprasannarani\_chem@cbit.ac.in>, "Dr. B V S Praveen" <br/>
<br/

Dear All,

Greetings!!

With an objective to update students on the latest developments in the field of Chemical Engineering Applications and Research and also create awareness on significance of Industrial Internship during B.Tech course, it is proposed to organize Invited Expert Lecture by successful alumni who are Entrepreneurs, under MoU, for this academic semester.

Please find below the details of speaker, topic and schedule for the invited expert lecture:

Class	Expert name & address	Торіс	Date & time
B.Tech Chemical	Ms. Sindhuja Talla	"Circular Economy & Sustainability" And	21-06-2022
Engg, IV Sem	(Alumnus 2018 batch)  Managing Director, Biosephia Engineering Services, Hyderabad.	"Internship Opportunities at Biosephia"	[Tuesday] 11:30-12:30 PM

Thanking you In-Charge HOD, Chemical Engg. Dr. P. V. Naga Prapurna

**Faculty Coordinators** 

Sri. I. Balakrishna (MoU Coordinator)

Dr. P. Madhuri (Alumni Coordinator)

Dr. R. Prasanna Rani (Class Teacher)

Dr. Raj Kumar Verma (Internship Coordinator)

216/2022 - 10.30 - 12:30 pm.

" Guest Leeture by Biosephia Group.

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Faculty co-ordinates

Pr. P.V. Naga PraPu

) Si. I. Bala Kaisha -

Dr. P. Madhuri - St. 216(22 216(22) Dr. R. Krasanna Rari - Man

4) Dr. Raj Kumal velma- (1)



Ms. Sindhuja giving the expert lecture



#### Dr.P.V.Naga Prapurna Associate Prof. <nagaprapurna\_chem@cbit.ac.in>

## Reg: Sudhee-Chemspark2k22 Invitation Letter

2 messages

CBIT CHEMSPARK 2K22 <chemspark2k22@gmail.com>

Tue, Mar 22, 2022 at 2:19 PM

To: aditya.madhav@gmail.com, balakrishna i <ibk@cbit.ac.in>, "Dr.B.Ganesh Assistant Professor"

<bganesh chem@cbit.ac.in>, "Dr.P.V.Naga Prapurna Associate Prof." <nagaprapurna chem@cbit.ac.in>, Harsha Nagar <a href="mailto:richem@cbit.ac.in"></a>, "prasannarani chem Asst. Professor" <prasannarani chem@cbit.ac.in</p> <pmadhuri chem@cbit.ac.in>, "Sri K.Prasad Babu Assistant Professor" <kprasadbabu chem@cbit.ac.in>, Swapna V <vswapna chem@cbit.ac.in>, balutumma@gmail.com

#### CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

#### CHEMICAL ENGINEERING DEPARTMENT **SUDHEE-CHEMSPARK 2022**

A National Level Technical Symposium: 23<sup>rd</sup> & 24<sup>th</sup> March 2022

## Dear All, Warm greetings!!!

Our department is organizing a two day National level Technical symposium, CHEMSPARK 2022 on 23<sup>rd</sup> & 24<sup>th</sup> March. This national level technical event serves as a platform for not only Chemical Engineering but all allied discipline students to present their work and interact with the peer community. The Chemical Engineering field envisages tremendous technology upgrades in different sectors. This event is an endeavor to educate on such technologies through Paper, Poster, Idea presentations and technical quiz. In this regard, we invite you to spare your valuable time to evaluate the following technical sessions:

Date	Time	Technical session	Judges
23 <sup>rd</sup>	1:35 to 3:00	Oral presentation session-I	Mr. N Aditya Madhav Dr. B. Ganesh
March	PM	Oral presentation session-II	Dr. Bala Narsaiah T Dr. P. Madhuri
	10:00-11:30 AM	Oral presentation session-III	Ms. T. Sindhuja Dr. V. Swapna
	10.00-11.30 AW	Poster presentation	Mr. Jagadishwar Ausala Dr. P. V. Naga Prapurna
24th March	11:55-12:55 PM	Idea presentation	Dr. R. Prasanna Rani Dr. K. Prasad Babu
	1:35-3:00 PM	Technical Quiz	Sir. I. Balakrishna Dr. Harsha Nagar

Thanking You, With Best Regards

Dr. P. V. Naga Prapurna

Sri. I.

Balakrishna

Dr. K. Prasad Babu

HOD, Chairman

Convener

Co-ordinator



#### Dr.P.V.Naga Prapurna Associate Prof. <nagaprapurna\_chem@cbit.ac.in>

## Fwd: Reg: Chemspark 2022 invitation letter\_drafy copy

1 message

Sri K.Prasad Babu Assistant Professor < kprasadbabu chem@cbit.ac.in>

Tue, Jul 4, 2023 at 9:56

To: "Dr.P.V.Naga Prapurna Associate Prof." <nagaprapurna chem@cbit.ac.in>

With Regards .....

Dr. K. Prasad Babu Assistant Professor Department of Chemical Engineering Chaitanya Bharathi Institute of Technology, Hyderabad-075.

MOB: +91 6304598984

Email ID: kprasadbabu chem@cbit.ac.in

-- Forwarded message -

From: pydimalla madhuri <pmadhuri262@gmail.com>

Date: Sat, Mar 12, 2022 at 11:49 AM

Subject: Reg: Chemspark 2022 invitation letter drafy copy

To: balakrishna i <ibk@cbit.ac.in>, <kprasadbabu chem@cbit.ac.in>

#### CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (AUTONOMOUS)

Accredited by NBA-AICTE, NAAC-UGC, an ISO 9001-2015 certified Institution, Gandipet, Hyderabad, Telangana, 500075

## Presents SUDHEE-2022

## DEPARTMENT OF CHEMICAL ENGINEERING **Presents**

# **CHEMSPARK-2K22**

NATIONAL LEVEL STUDENTS' TECHNICAL SYMPOSIUM March 23-24, 2022

## INVITATION

Dear Friends,

Greetings!!!

We are happy to share with you that our department proposes to organize a TWO - DAY National level students' technical symposium, 'CHEMSPARK-2K22', for the benefit of students of chemical engineering and allied fields.

Please find as attachment, the POSTER for the same.

The event will serve as a common platform for the students to present their work and interact with the peer community on the latest developments of the field. Apart from traditional paper and poster presentations, the event plans for organizing competitions like technical quiz, idea presentation etc which will reflect technical talents of the students.

PLEASE NOTE: We request you to participate actively and also post the same on your institute/college/department website or Watsapp groups and give wide publicity among your friends, so as to facilitate easy access for their participation.

Hence, we the team of CHEMSPARK-2K22 request your kind cooperation and to encourage your student friends to participate in our event. Thanking you,

## Dr. P. V. Naga Prapurna

Associate Prof. and I/C Head, Chemical Engg.

Chairman,

Phone: +91-9885256057

#### Sri. I. Balakrishna,

Assistant Prof., Chemical Engg.

Convener,

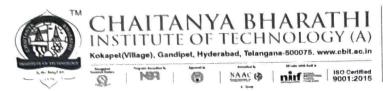
Phone: +91-9440450622

#### Dr. K. Prasad Babu,

Assistant Prof., Chemical Engg.

Coordinator,

Phone: +91-6304598984



## **Department of Chemical Engineering**

01-03-2023

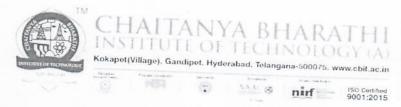
#### Office Order

To ensure that the Vision and Mission of the department are achieved by acting as a catalyst in improving the quality of the programs offered, Department advisory Board is constituted as a core committee for the department to help in decision making process of the matters pertaining to Academic, Infrastructural facilities, student support systems, short and long-term goals. The term of the membership of DAB shall be for a period of three years from 01-03-2023 to 28-02-2026.

#### Composition of Department Advisory Board (DAB)

S. N	Category	Name of member	Designation
1.	Principal	Dr P. Ravinder Reddy	Chairman
2.	Head of the Department	Dr M. Mukunda Vani	Convener
3.	Two senior faculty	Dr N. L. N. Reddy Dr M. Mallaiah	Members
4.	NBA Coordinators - UG	Dr K. Prasad Babu, Dr B. Ganesh	Members
5.	Alumni	Mr. Phani Raj Kiran, Managing Director, Tripura BioTech, Choutuppal, Nalgonda  Ms. T. Sindhuja, Managing Director, Biosephia Engineering Services, Hyderabad	Members
6.	Academic expert from IIT	Dr M. Narasimha, Professor, Department of Chemical Engineering, IIT-Hyderabad, Sangareddy	Member
7.	Academic expert from NIT	Dr Shirish H Sonawane, Professor, Department of Chemical Engineering, NIT Warangal	Member
8.	Employer	Mr Shiva Kumar, Neuland Pharma	Member
9.	Industry expert	Mr. A Jagadishwar Kumar, CEO & Managing Director, Punya Herbals Pvt. Ltd., Hyderabad	Member

Principal



COMMITTED TO RESEARCH INNOVATION AND EDUCATION YEARS

# **Department of Chemical Engineering**

01-03-2023

# Office Order

To enhance the Quality of the Program and to ensure Continuous Improvement in terms of Curriculum, Teaching Learning Processes (TLP), Student Performance, Faculty Contributions, Infrastructural Facilities, Student Support System and Industry Interaction by effectively involving the stakeholders. The term of the membership of PAQIC shall be for a period of three years from 01-03-2023 to 28-02-2026.

# Composition Programme Assessment Quality Improvement Committee (PAQIC)

S. N	Category	Name of member	1E 0
1.	Head of the Department Dr. M. Mukunda Vani		Designation
2.	Program Coordinator (UG)	Dr P. V. Naga Prapurna	Chairpersor
3.	Associate Prof., specialization		Convener
4.	Assistant Professor specialization	Dr R. Prasanna Rani	Member
5.	NBA coordinator of this program	Dr K. Prasad Babu	Member
7.	In-charges of CEG pertaining to this UG program	Sri. I. Balakrishna Dr P. Madhuri Dr B. Ganesh Dr B.V.S. Praveen Dr Raj Kumar Verma Dr Rupam Sinha	Members
	Alumni	Sri. P. Haribabu, Assistant Professor, Department of Chemical Engineering, RGUKT, Basara	Member
9.	Industry expert	Mr. V. Kiran Kumar Deputy Director, CIPET, Cherlapally, Hyderabad	Member
	Employer	Mr. V. Himanshu Managing Director, Biosephia Organic Solutions Pvt. Ltd., Hyderabad	Member
0.		Sri. Maheshwar Reddy Lingala Associate Vice-president, Aurobindo Pharma, Hyderabad	Member

Principal Principal