



**SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY**

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Ghatkesar Municipality, Medchal-Malkajgiri Dist., - 501 301

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7.1

Two Best practice studies successfully implemented by the Institution as per NAAC format provided in the Manual

SA



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Kondapur, Ghatkesar Municipality, Medchal (D)



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## Best Practice: Industry Institute Interaction

**Title of the practice:** Human resource development is a vital source of strength in country building, according to Industry Institute Interaction. The success of the industry is largely determined by the caliber of the individuals that work there. The Industry Institute Interaction Cell is a programme that aims to promote interaction between industry and institutes in order to create employable human resources.

**The context:** Industry is dynamic, with rapid advancements in a variety of fields. Only through industry- institute collaboration can skills be developed. Industry-academic contact is a vital procedure that can give necessary inputs to the academic institute in order to help teachers and students develop the skills they need. Institutions get access to up-to-date curriculum, a source of cash through consulting, a supply of personnel for employment, social relevance, and, most significantly, a brand identity. Faculty will also be exposed to the most up-to-date industrial practices in order to improve their teaching-learning processes. Students benefit from hands-on instruction, while society benefits from higher-quality goods and services. It is vital to have an industrial institute contact to fulfil the demands of the employer and to mould the students according to the requirements of industry. This helps to maintain the spirit of competition high by motivating students to achieve their goals. To work toward a student's complete development expand the career opportunities for students. To improve the average package offered and the quality of placements by partnering with superior package businesses.

### Objectives of the practice:

- The IIC's mission is to foster ongoing collaboration with industry in order to close the gap between industrial opportunities and academic results.
- Raising student awareness of social issues, as well as improving consultation services
- To encourage students to participate in industry training in order to gain the necessary exposure and experience.

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- To the greatest degree feasible, make use of existing resources such as laboratories.
- To determine the industry's needs and give solutions.
- To fine-tune the curriculum to meet the needs of the industry
- Increasing the availability of marketable workforce by improving student skills.
- Organizing workshops, seminars, conferences, and seminars with faculty and industry collaboration.
- Inviting engineers and industry professionals to give presentations at engineering institutions.
- Organizing industrial visits for individuals.
- Interaction between industry professionals and students in the creation of curricula.

**The practice:** Counselling and awareness meetings were scheduled on a regular basis to provide students with career counselling and planning make decisions about their immediate and long-term objectives. Assessments were designed to help students better understand their learning skills. Guest lectures from industry experts in many sectors will be given to discuss shifting industry trends, the extent of disruptive technology, and the necessity to be competitive. Internal assessment platform allows for the selection of a pool of students and holistic training strategy. Competitive coding and dynamic programming as part of advanced IT training for top performers with consistent performance since 1st year during B.Tech III year for top performers with consistent performance.

Beginning in their first semesters, the institution provides well-structured skill training programmers for students of all areas of B.Tech. And MBA, which helps them develop gradually. Third-party training partners are used to deliver classes throughout the III, IV, V, and VI semesters. This is done because the instructors have industry expertise and appreciate the necessity to bridge the gap between curriculum and industry requirements, as well as the demands that the sector places on new graduates. Students are provided inputs depending on the needs of different companies. During the summer holiday, students are encouraged to pursue internships. Students in their final year are encouraged to complete their final projects in a relevant business, such as building or manufacturing. Industry and alumni are both considered stakeholder groups and members of the board of studies. This aids in the improvement of syllabi in accordance with societal requirements and technology advancements. Graduates gatherings are held on a regular basis to foster connection

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industries to aid knowledge transfer and industrial preparedness. Field visits and industrial tours are provided to technical students in order to expose them to field needs, manufacturing process processes, and the many phases involved in the final output. Management students are encouraged to participate in industry tours where they are taught various management skills. IIC is critical in obtaining consulting and placement opportunities from various organizations. IIC strengthened its ties with industry. The IIC has discovered a disconnect between industry need and the institute's ultimate result. The cell serves as a link between practitioners and academics alike. As part of their academics, our students have visited GSI, NIAR, NICMAR, INFOSYS, KTCP and Cyient for skill training and to learn about the manufacturing, quality, and other processes.

## Obstacles faced if any and strategies adopted to overcome them:

Some students, particularly female students are not sent on industrial visits or internships by their parents because they are afraid of taking their kid away from the college. Parents of students are encouraged to participate in industrial tours and visits by informing them about the importance of industrial awareness and the safety precautions that must be followed. This led to an increase in total participation.

It is necessary to have laboratories to conduct construction projects from industry in order to apply this technique.

Regular alumni meetings, which assist enhance industry relationships, should be held to maintain interaction with alumni working in various industries. It offered a forum for both Students and staff members to become aware of industry expectations for skill sets that students must possess in order to be employable.

Through industrial visits, summer internships, and industry projects, IIC provides several chances for students and professors to get industry experience.

The IIC aided industry people in upgrading their credentials, knowledge, and competence via higher education, continuing education, and training.

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- The number of placements has increased.
- Establishing a solid working relationship with the industry.
- These activities aid in producing a confident output capable of dealing more successfully with social difficulties.
- An increase in the number of consultancies.
- A rise in the number of qualified professors.
- Improving the effectiveness of the teaching and learning process.
- The applicants' employability skills were improved.
- The number of people with technical skills and those who are employable has grown.
- With more offers for non-IT branches and a higher average package, the number of campus positions provided rose.
- Through contests Skill specialized Placements, students have won a number of local, regional, and national competitions as well as employment offers
- Students receive more practical understanding by visiting any industry and learning about the process.
- They can apply this practical knowledge to their academic work or utilize it to start their own business. How regular industry trips inspire creativity.

## Resources required:

To bring the students up to speed, it is necessary to have knowledgeable, experienced, and trained faculty.

The institute should be situated in such a way that industry professionals may easily reach it. To facilitate successful teaching and learning, it is critical to provide tools such as smart classrooms, cutting-edge software, and ICT-enhanced classrooms.

  
Co-ordinator

  
Head

  
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Principal  
Samskruti College of Engineering & Technology  
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## Photos of BEST PRACTICE - I

EMPLOYABILITY SKILLS



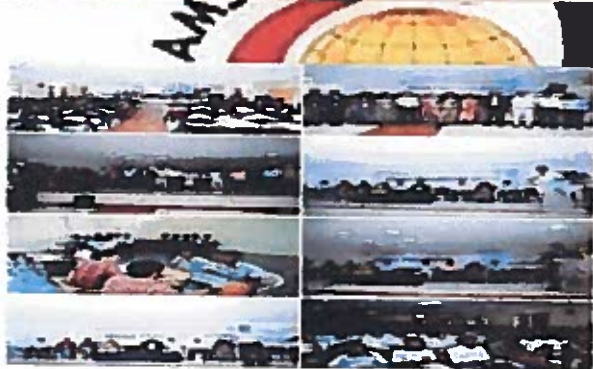
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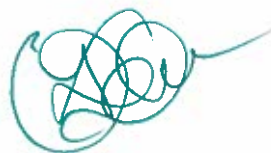


## PPT Presentation

  
Co-ordinator

  
HOD

  
Principal



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## Conduction of Lab Experiments

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**Photos of Industrial visit to  
various Government and Non-Govt**

**BEST PRACTICE – II**

**LED CHIPINDUS & ANNUAL  
PENETRATION PVT LTD**



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Kondapur(V), Ghatkesar(M), Medchal(Dist)



## DEPARTMENT OF CSE

### CIRCULAR

Dt:15.12.2022

All the B.Tech IVth year students of CSE are hereby informed that the college is organizing industrial visit "ARTIFICIAL PENETRATION PVT LTD AND ANANTAGIRI HILLS" will be conducted on 18.12.2022. All the students must attend the visit without fail.

  
HOD-CSE

Copy to:

1. Director
2. Principal
3. Dean
4. IQAC
5. All Staff Members
6. File copy

  
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**Department Of Computer Science And Engineering**

Ghatkesar

Date: 14.12.2022

To,

The Principal,

Samskruti College of Engg. & Tech., GHATKESAR.

Respected Sir,

Sub:- INDUSTRIAL TOUR on 18/12/2022.

With Reference to the above subject all the IV year B.tech CSE Students a total of 70-in No. are interested in visiting the Industry on 18/12/2022 (01 Day only) at Artificial Penetration Software Solutions Pvt.Ltd, Hyderabad , Telangana State. The industry also permitted to visit on the above date. Two (2) Faculties from CSE Department have been allotted to coordinate in this regard. The list of students is enclosed.

We request you to provide the transportation and other expenditures towards the industrial visit.

Hence we request your kindness to grant the permission.

Thanking you sir.

Yours faithfully

Principal  
Department of Computer Science & Engineering  
Samskruti College of Engineering and Technology

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12/17/22, 1:19 PM

SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY Mail - info@artificialpenetration.com



Computer Science & Engineering <hodcse@samskruti.ac.in>

## Request letter to visit your Company-(Industrial Visit) 2022

2 messages

Computer Science & Engineering <hodcse@samskruti.ac.in>

Sat, Dec 10, 2022 at  
3:02 PM

To: info@artificialpenetration.com

Dear Sir/Mam,

I am writing this letter on behalf of the Department of Computer Science & Engineering as the Head of the department at Samskruti College of Engineering & Technology, seeking your permission to conduct an industrial visit to your company Artificial Penetration Soft Solutions, Hyderabad on 18-12-2022. The Samskruti College of Engineering & Technology is a well-reputed educational institution in Hyderabad, Ghatkesar with NAAC 'A' grade accredited institution. Founded in 2005 by st.Vincent Educational Society, Samskruti College of Engineering and Technology represents a rich tradition of excellence in technology-based education. A premier-league institution among the affiliates of JNTUH University.

There would be CSE 70 students including 2 faculty members. This visit would help in better understanding of various concepts. Like Web Technologies, Cloud Computing and IT Solutions. The purpose of this visit is to gain practical knowledge about the concepts and have an idea about the software working environment. We intend to take a round of the entire industry and show the tasks handled in department of our students.

Kindly grant us permission for the industrial visit and make the necessary arrangements for the same. We are very thankful to your company if your accept my visit. We look forward to a positive reply from your side.

Thanking You,

Yours Sincerely,

Mr. K. Vamshee Krishna  
Assistant Professor  
Head of the Department CSE  
Samskruti College of Engineering & Technology,  
Hyderabad, Ghatkesar, Telangana-501301  
hodcse@samskruti.ac.in  
9800547578

  
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12/17/22, 1:19 PM

SAMSKRUTI COLLEGE OF ENGINEERING AND TECHNOLOGY

Tue, Dec 13, 2022 at  
10:32 AM

info@artificialpenetration.com <info@artificialpenetration.com>

To: Computer Science & Engineering <hodcse@samskruti.ac.in>

Cc: Surendraa456@gmail.com, Prasanna105kumar@gmail.com

Hello Mr. K. Vamshee Krishna,

I hope everything is going well for you! Thank you for your patience. For industry trips and workshops, we at Artificial Penetration Software Solutions Private Limited always give priority to students and freshers.

We welcome Samskruti College of Engineering & Technology students to visit our branch, where a consultant from our organization will provide knowledge transfer regarding work flow and technology information.

We are admitting students and visitors to the Dilsukhnagar branch only due to data security concerns.

Address: Metro Pillar- 1545, Rajdhani Complex, 3rd floor, Sirisha Mess Entrance, Dilsukhnagar, Hyderabad, Telangana.

For any quires, contact Mr. Divesh 8978309554

Thanks & Regards

Padma. B

HR Manager

hr@artificialpenetration.com

[Quoted text hidden]

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### INDUSTRIAL VISIT REPORT

Date: 20.12.2022

Title : INDUSTRIAL VISIT (Artificial Penetration Software Solutions)  
Date : 18.12.2022  
Duration : One day  
Number of Students : 59

#### Objective of the Visit:

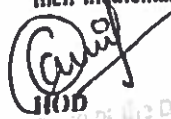
- Students visited Artificial Penetration Software solutions private limited, Hyderabad on 18<sup>th</sup> December 2022. Artificial penetration software solutions has an excited team of data scientists, business intelligence, business analyst, programmers, proficient UX Originators, Full Stack Developers, Solution Architects, Quality Analyzers and domain Experts to determine Business basic issues and Hand Crafted Business Development Applications.
- Also Visited Anantagiri Hills which is located in Vikarabad District. The Water flows from these Hills to Usman Sagar is also known as Himayathsagar. It is one of the dense forests in Telangana. Ananthagiri Temple is located in this forested area.

#### Outcomes of the Program:

Students gained knowledge about the market in

- Software Industry and IT Services.
- Digital Marketing
- Mobile Development
- Graphic Designing
- Web Designing

Students enjoyed the nature in Anantagiri Hills and learned the importance of forest and their medicinal values.

  
HOD

In-charge of the Department  
Computer Science and Engineering  
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*Jay's*  
Co-ordinator

*[Signature]*

*[Signature]*  
Co-ordinator

*[Signature]*  
Hod

*[Signature]*  
Principal

*[Signature]*

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## Report on Industrial Visit to LED CHIPINDUS PVT LTD .

On 20 -03-2023 We Are The Branch Of EEE Of Samskruthi College Of Engineering College And Technology Located at Ghatkesar, Kondapur Went Industrial Visit To LED CHIPINDUS PVT LTD. Our respected principal Mr. Dr. J. Govardhan garu Head of the Dept. Mr. T. Laxminaryana followed by the senior lecturer Mr. K. Prasad and 54 Count Of Participants Flagged To Start The Trip To Kushaiguda.



After reaching the LED CHIP INUDUS PVT LTD we had small photo session with the staff members.



### LED – SOLID STATE LIGHTS

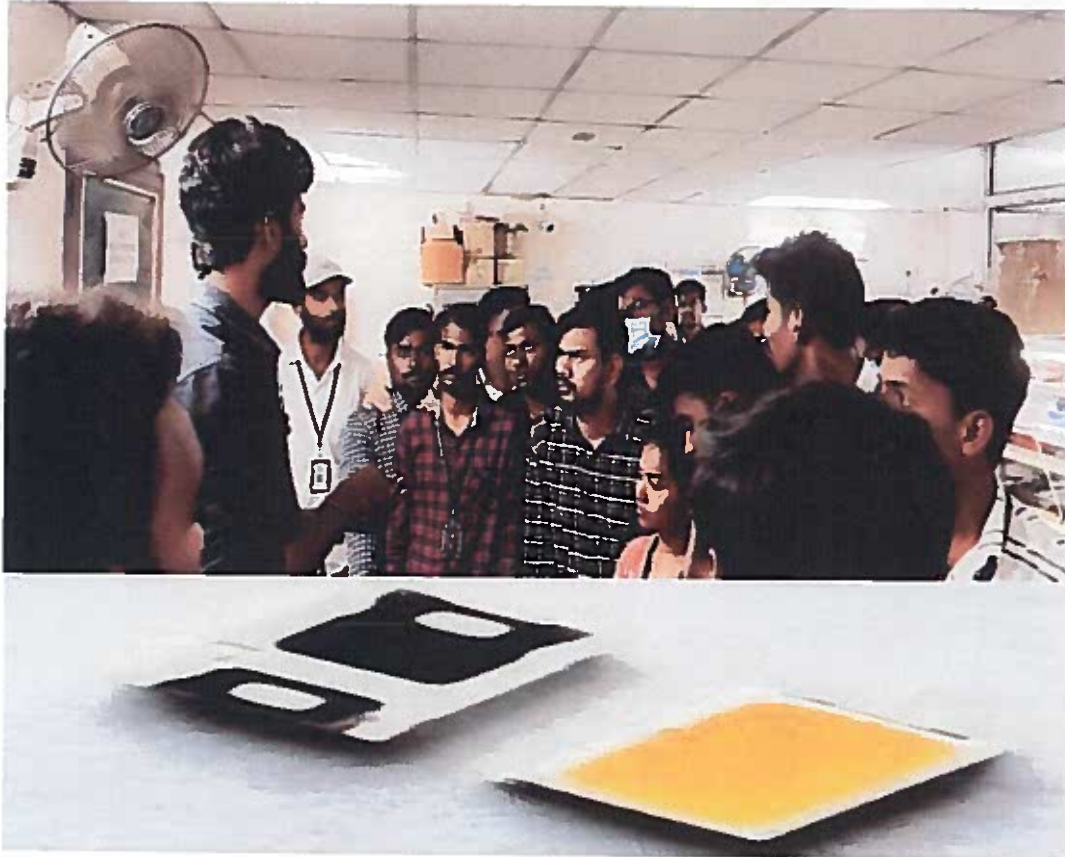
- LEDs or Solid-State Lighting (SSL) have surpassed many conventional lighting in terms of energy efficiency, lifetime, versatility, color quality, and cost competitiveness. It's forecasted that LED lighting will represent over 75% of all lighting sales by 2030 2018 resulting in an annual energy savings of 3400 trillion units

  
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**LEDCHIP MANUFACTURING PROCESS FLOW**

**1. DIE (CHIP) BONDING**

Chips are picked up from wafer and glued onto a frame with silicone



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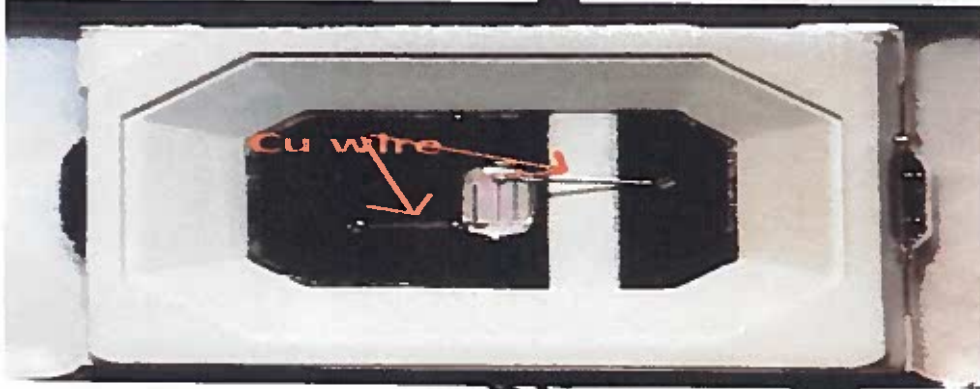
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## 2. WIRE BONDING

Pads -Anode and Cathode are electrically connected to frame with copper wire by using capillary



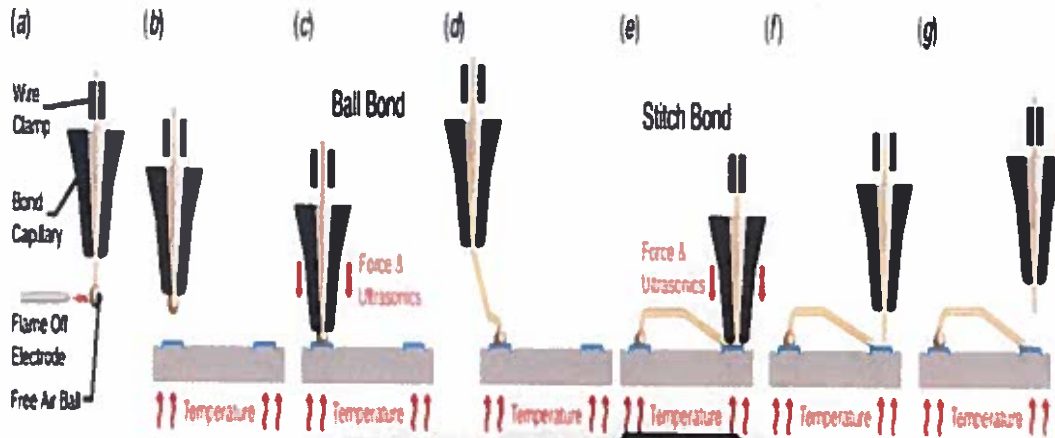
  
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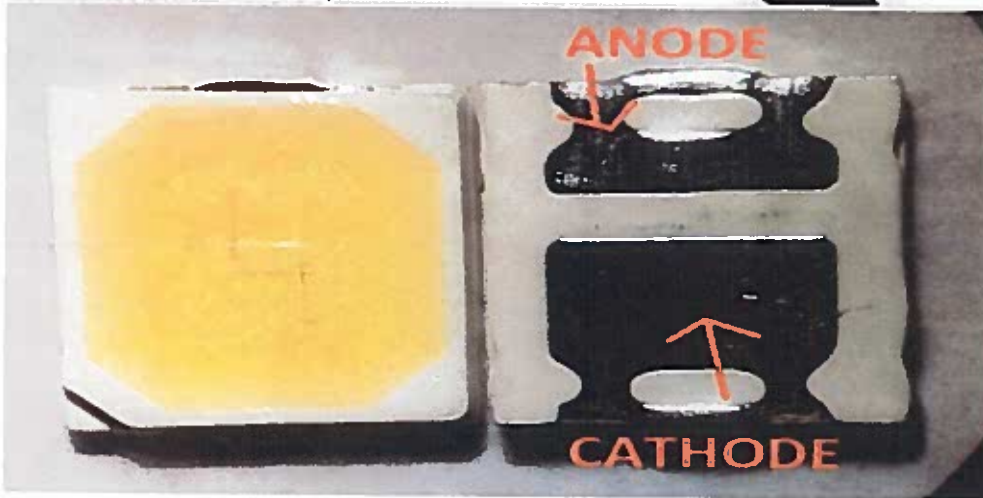
combination of heat & ultrasonic energy.

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**4. FINISHED GOOD LED CHIP**

After cured, devices are separated out from frame



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## 5. BIN SORTING

Finished devices are sorted (CCT, Ra, Lumens wise) in Bin sorting machine



  
Co-ordinator

  
Hod

  
Principal



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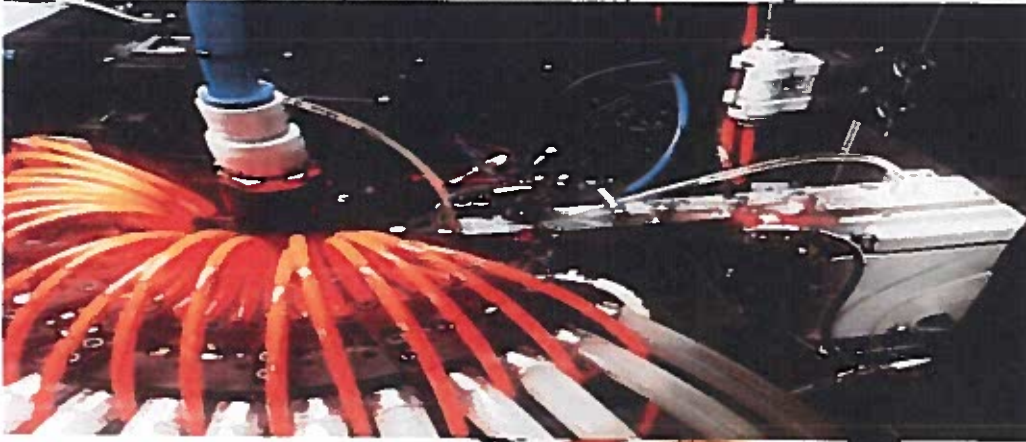
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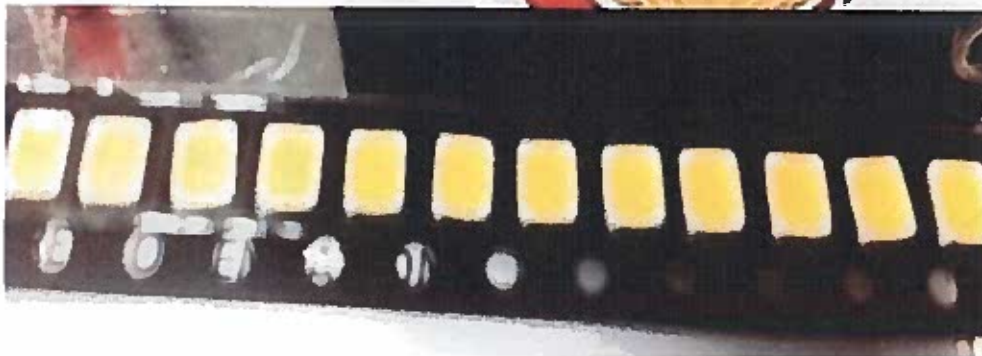



Finished devices are sorted (CCT, Ra, Lumens wise) in Bin sorting machine



## 6. Packing (Tape and Reel)

The sorted devices are packed in to carrier tape and sealed with cover tape



  
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## LED Packaging Machines (automatic)

a) Die Bonding Machine



b) Wire bonding Machine

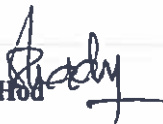



c) Testing Machine



d) Dispensing Machine

  
Co-ordinator

  
HOD

  
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Ghatkesar Municipality, Medchal-Malkajgiri Dist., - 501 301



(e) Bin Sorting Machine



(f) Tape & Reel Machine



  
Co-ordinator

  
Hod

  
Principal

  
PRINCIPAL  
Samskruti College of Engineering & Technology  
Kondapur, Ghatkesar Municipality, Medchal (D)

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