

## CIRCULAR



## SCHOOL OF PHARMACY

## CIRCULAR

No: AJU/SOHAS/ 199/2023

Date 20<sup>th</sup> September 2023

This is to inform all the students of B. Pharm 1<sup>st</sup> semester and D. Pharm 1<sup>st</sup> year that the Industrial visit 2023 will be held on 11<sup>st</sup> November 2023 at Sai Mirra Innopharm Pvt. Ltd. Chennai. Total amount to be collected from students is 13000/- per person out of this Rs 7000/ would be adjustable in 5<sup>th</sup> Sem for B Pharm and 2<sup>nd</sup> year for D Pharm. Students' declaration form to be submitted to Mr. Alok Kumar Moharana. Students need to be submitted their final amount Rs 9000/- by 10<sup>th</sup> of October 2023. Those students who doesn't come under complementary category will not get any exemption towards adjustment.

Dean School of Pharmacy.

ARKA JAIN University Iharkhand

Dean School of Pharmacy Copy to IQAC Office of the Registrar Mr. Alok Kumar Moharana Class Coordinators In-charge Website Office File



## INDUSTRIAL VISIT TO SAI MIRRA INNOPHARM (P) LTD CARVAAN 2023

Date of Event	09/11/2023-16/11/2023
Name of the Event	INDUSTRIAL VISIT TO SAI MIRRA INNOPHARM (P) LTD CARVAAN 2023
Type of the Event	Outreach Extension Activity/Collaborative activity
Conducted by	School of Pharmacy and MoU partner Delvin and Sai Mirra Innopharm (P) Ltd
No. Of Participant	79 students+ 7 faculties

**OBJECTIVE:** To understand the Industrial Challenges, Culture and Skill also to minimize the gap between Industry and academia.

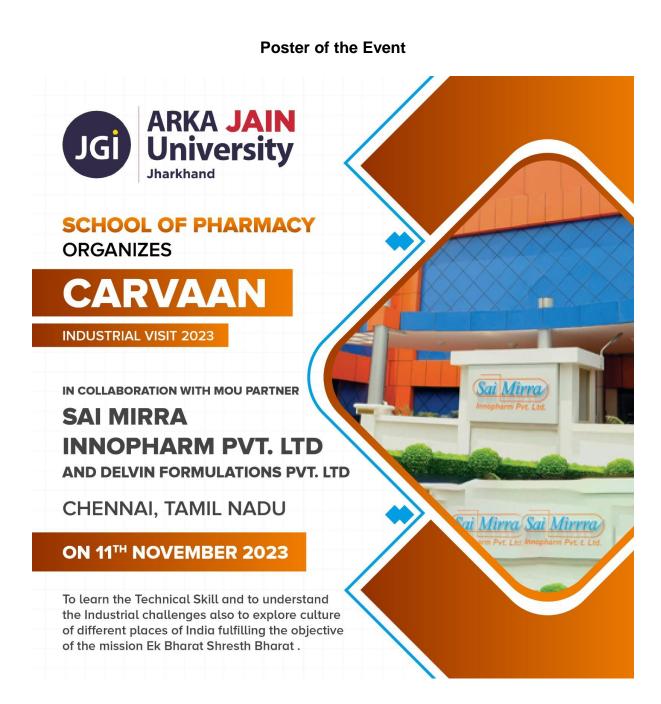
**DETAILS:** "Sai Mirra Innopharm Pvt. Ltd., Chennai, Tamilnadu" was established in the year April 2001, Sai Mirra Innopharm Pvt. Ltd. Is the renowned formulation company of a fully integrated pharmaceutical business group in India, with a strong foothold in R&D, Manufacturing and Formulations, for both domestic and international market. Company produces a diverse portfolio of specialty and generic drug products with regulatory compliance, for a wide range of therapeutic usage and covers a range of dosage forms which include tablets, capsules (both soft and hard), liquid dosage form and oral sachets.

Under the mission of Ek Bharat Shreshtha Bharat this Industrial Visit 2023-24 "CARVAAN 2023-24" organized to promote a sustained and structured cultural connect in the areas of culture, traditions & music, tourism & cuisine, sports and sharing of best practices, etc.

This time School of Pharmacy conducted the Industrial Visit to **SAI MIRRA INNOPHARM (P) LTD, Chennai**. Dr. Jyotirmaya Sahoo had taken the necessary permission from the Industry. Mr. Jayshilan J, Managing Director of **SAI MIRRA INNOPHARM (P) LTD** extended his hands of cooperation for the necessary approval of the academic/industrial tour. The students of Pharmacy started their journey through railway on 9<sup>th</sup> November 2023 from Kharagpur to Chennai. On 11<sup>th</sup> November 2023 students and faculties visited **SAI MIRRA INNOPHARM (P) LTD**. On 13<sup>th</sup> and 14<sup>th</sup> November all 86 candidates visited the place of historical and spiritual importance like Mahablipuram and Pondicherry. On 15<sup>th</sup> November 2023 the return journey started and on 16<sup>th</sup> November 2023 all arrived safely at Jamshedpur. All the students and faculties expressed their gratitude to the honourable Vice Chancellor, Registrar and CFO of the University for the successful arrangement of the industrial visit.



**OUTCOMES:** The students get to know the functioning of the industry, how the machines work, what principles they follow, how much time it will take to complete the process, how the workers manage the work properly and also the organizational behaviour.







# Sai Mirra Innopharm Pvt. Ltd.

Registered Office & Factory: Plot No. 288 & 299, SIDCO Estate, Ambattur, Chennai 600 098, India. Tel # 91 (44) 42043221 / 22 info@saimirra.com www.saimirra.com CIN. U24232TN2000PTC044315

Date: 14/11/2023

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that the students and faculty members of the **School of Pharmacy**, ARKA JAIN University, Jharkhand attended the industrial visit in our **SAI MIRRA INNOPHARM PVT. LTD – PLANT I** facility at Ambattur, Chennai on **11<sup>th</sup> November 2023**. We congratulate and wish all students and faculties of ARKA Jain University all success in their future endeavours.

Thanking you,

For SAI MIRRA INNOPHARM PVT LTD

Jai Gan shAS

General Manager – Human Resources

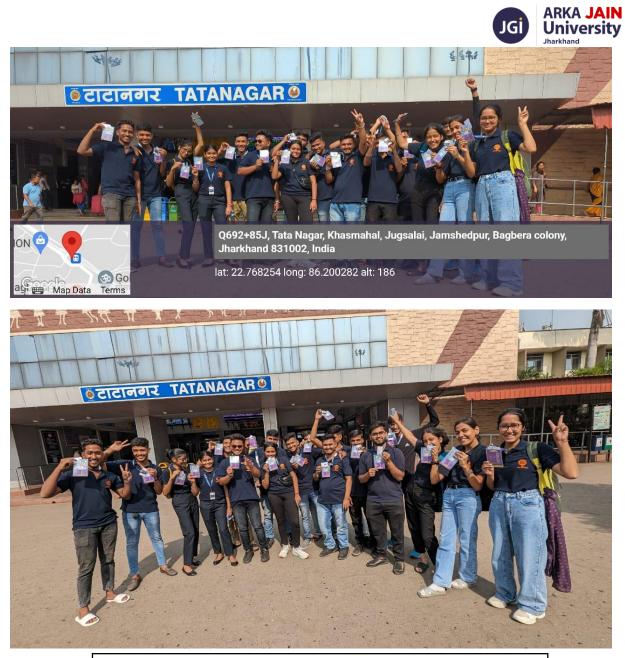
Letter of appreciation from Sai Mirra Innopharm Pvt. Ltd., Chennai



## Photos of the Event

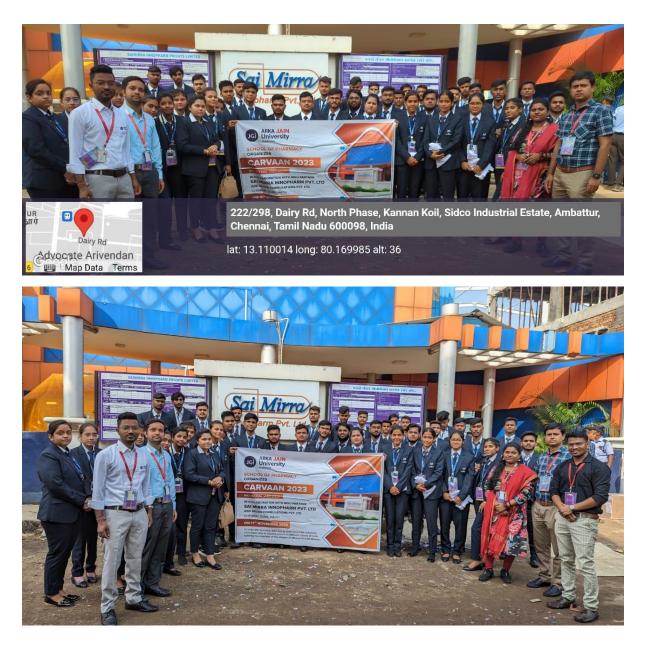


Journey begins for SAI MIRRA, CHENNAI on 9<sup>h</sup> November 2023



Proud with an Unique ID/Boading Pass cum Itinarary





At the entrance of Sai Mirra Innopharm Pvt Ltd





Offering Tokens of Appreciation to Authorities of Sai Mirra Pvt Ltd



Ready to visit inside Sai Mirra Pvt Ltd







lat: 13.072567 long: 80.255073 alt: 32



Celebration of Diwali by the students and faculties during Industrial Visit





Places of historical importance visited by the students at Mahabalipuram







Places of spiritual importance visited by the students Students Mahalaxmi Temple, Chennai









Students at the view point nearby Auroville, Pondicherry



Students at one of the churches in Chennai





Students enjying in a sea beach of Chennai





Students enjying in a sea beach at Pondicherry





Students relaxing in their room provided at Hotel green palace, Pondicherry



Home coming Students at Chennai central railway station



# List Of Paticipants

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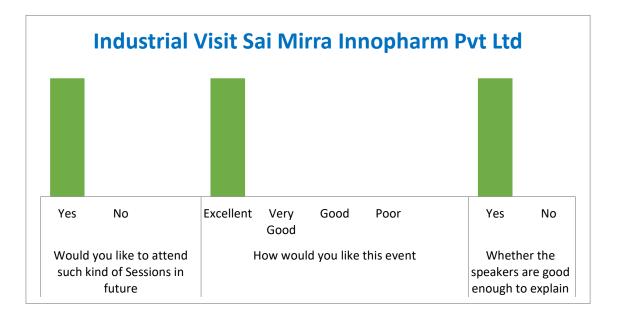
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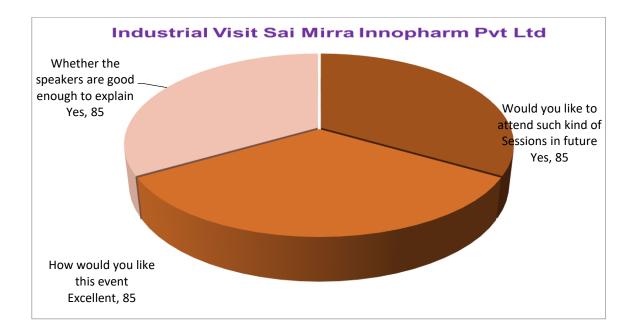
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## Feedback Analysis







**Press Release** 





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Jamshedpur: स्कूल ऑफ फार्मेसी, अरका जैन यूनिवर्सिटी द्वारा 11 नवंबर 2023 को साई मीरा इत्रोफार्म प्राइवेट लिमिटेड, चेन्नई में एक औद्योगिक यात्रा आयोजित की गई है। इस यात्रा में 79 छात्र और 7 संकाय सदस्य शामिल हुए। स्कूल ऑफ फार्मेसी के डीन डॉ. ज्योतिर्मय साहू ने इस यात्रा के लिए आवश्यक व्यवस्था की थी। यात्रा ने 9 नवंबर 2023 को अपनी यात्रा शुरू की। औद्योगिक यात्रा के अलावा छात्रों ने चेन्नई के आसपास के ऐतिहासिक और आध्यात्यिक महत्व के स्थानों का भी दे किया। उन्होंने महाबलीपुरम और पांडिचेरी का भी दौरा किया। अरका जैन विश्वविद्यालय प्रबंधन

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WHATBAPP CHANNEL JOIN

Jamshedpur (Anand Misira) : जमवेदपुर के गाइतिया स्थित अरका जैन यूनिवर्सिटी की ओर से अपने स्कूल औंक फार्मेसी के छात्र-छात्राओं को औदोगिक यात्रा के तहत पेश्रई स्थित साई मीत इनोफॉर्म प्राइवेट लिमिटेड का भ्रमण कराया गया. इस दौरे में यूनिवर्सिटी के स्कूल ऑफ फार्मेसी के 79 छात्र-छात्रारं और 7 संकाय सदस्य शामिल थे. स्कूल ऑफ फार्मेसी के ठीन ठों ज्योतिर्मय सङ्घ ने इस दौरे को लेकर आवस्थक व्यवस्थ की थी. छात्र-छात्राओं की यह यात्रा पिछले नी. नवंबर आरंभ हुई. इस क्रम में छात्र-छात्राओं ने औदोगिक यात्रा के अलाख बेन्नई व आसवास के ऐतिहासिक और आध्यत्मिक महल के स्थानों का भी दौरा किया. उन्हें यूनिवर्सिटी की ओर से महाबलीपुरम और पाडियेरी का भ्रमण कराया गया.



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अरका जैन विश्वविद्यालय प्रबंधन ने यात्रा में शामिल करस्यों के लिए भोजन और आजस अदि की की स्मृतित व्यवस्था की थी. ठॉ साहू ने साई मीरा इनोकार्म प्राइवेट लिमिटेड के निदेशक जयसीतन जे और महाप्रबंधक (मानव संसाधन) जय गणेश श्एस के प्रति उनके सहयोग के लिए आधर व्यवत किया. यात्रा का सनन्वय आलोक मोहराना, अटल, प्रवास, दुष्धता, पाखी और यूर्णिमा ने किया.



#### WRITE-UP



REPORT ON INDUSTRIAL VISIT 2023

TO

#### SAI MIRRA INNOPHARM PVT.LTD.

11<sup>TH</sup> NOVEMBER 2023

SCHOOL OF PHARMACY, AJU

\* NAME: SOURISH NANDA

ENROLLMENT NO.- AJU/230067

COURSE: BACHELOR OF PHARMACY (B. PHARMA)

SEMESTER / YEAR: 1st SEMESTER / 1st YEAR

Sourish Norda (21/11/23) SIGNATURE:







SAI MIRRA INNOPHARM :-INDUSTRIAL VISIT :-Jai Minna Innophon is one of the leading phanmaceutical companies in the service of health care. The company produces and exports health care products such as tablets, capsules, liquid doeage and semi-solid durage forms of pharmaceutical drugs. CEO - Mr. S.S. Jay Sinha MD -> Mrs. Subrita Assistant Manager -> Murgan Muthu Tablet Manufacturing Process:-·> Blending - Binblender ·) Granulation - Rapid Mixey Branulator ·> Drying - Fluidization Bed dryer, multimiller > Compression - Cadmach compression machine ·> Coating - Neocota coating machine Polishing — Moisture balance, Friability tester, weighing
Branding Balance, disintegration test Apparatus ·> Branding Balance, disintegration test Apparatus, ·> guality Checks Tablet hardness, test ·> Packaging (> HPLC system BBS Machine, Bluster cantonator machine



1) Blending -> It is a pharmaceutical process of combining two substances to give a mixture which would be passed to the negt step of clung development Instrument used :-Binblender -> The blending container is shaped life a bir. -> The container is attached on both ends to a frame & has a loading value. -> API (Active Pharmaceutical Ingredient) and excipients are added to get a homogenous mixture. -> It ensures the even distribution of API. Granulation Room : -Granulation It is the process of changing powders into granules. The main equipments used are :-Rapid Mixer Granulator -> It is used to mix the pharmaceu tical ingredients and make the granules before compression, also called as high shear mixer. -> Binders are added with powder in the granulator and speed is adjusted according to the required size and shape of granules. Drying -> Pharmaceutical process used to remove egress moisture and solvents. Instrument used :- Fluidization Bed dryger



Fluidization bed dryer -> used in the drying process where hat aim is introduced at high pressure through a perforated bed plate. -> Moisture content is checked manually from time to time. Multimiller -> It is a high speed machine used for dry granulation, mixing etc. -> Dry granulation is a high-speed machine process where the granules are formed without the addition of any liquid material. Compression Room :-Compression :-It is the phanmaceutical process in which the granules are compressed into tablets. → Tablet press machines applies high pressure and the material is filled between the punches. -> In compression method, physical properties of tablet are affected and dimolution and release of API are also affected. Instrument used : Cadmach compression machine -> produces 50,000 (Fifty thousand tablets) per hour. -> converts granulated powder into pressed tablets of uniform size and weight.



Coating Room : Coating -> It is the outermost smooth layer of a tablet that provides a unique identification to the tablets. -> Coating also masks the colowe, taste and smell of the drug and protects the drug from physical and chemical haven. Instrument used :-Neocota coating Machine -> The machine provides a flexible system for coating of the tablets, uses a peristattic pump to provide a uniform coat for every tablets. Polishing and Branding :-Polishing is done to remove any sharp edges of the tablets and makes the tablet smooth and shiny. -> Branding -> It is any printed information on the tablets IPOC (In Process Quality Control) ROOM: These are checips that are carried out before the manufacturing process is completed (Right material) (Right Time) - (IPBC) Right Amount) (Right place)

Moisture Balance -> measures the amount of moisture in tablets.



Friability Test -> To determine the strength of the tablet Weighing Balance -> To measure the weight of the tablet Tablet hundress Test - Measures the overall handress of the tablet. Disintegration Test Apparatus (DTA) -> For accurate estimation of disintegration time of tablets. Quality Control Department:-Buality of the product must be checked before packaging -> After approval from quality control, the Batch is packed. Titration -> It is the process of chemical analysis in which the quantity of some constituent of a sample is determined by adding to the measured sample an equatly Known quantity of another substance with which the desired constituent reacts in a definite, Known proportion High Performance Liquid Chromatography (HPLC) It is a process of separating components in a liquid mixture -> A liquid sample is injected into a stream of solvent (mobile phase) flowing through a column packed with a reparation medium (stationary phase).

University JGL Solvent Reservoir Plant processing 400 atm writ & -Silica signal to display Sample Processor Injection DETECTOR HPLC Tube , waste Instruments used :-1) Waters (2695) 2) Waters (2996) 3) Photodio de Array Detector HVAC System :-Heating, ventilation and air-conditioning system used for regulating and maintaining the appropriate environment in the manufacturing and storage area in the pharmaceutical industry. Primary and Secondary packaging Area :-Primary packaging -> Any packaging material that comes into direct contact with pharmaceutical preparations Secondaring packaging -> This is overpacking material that lies outside of the primary packaging.

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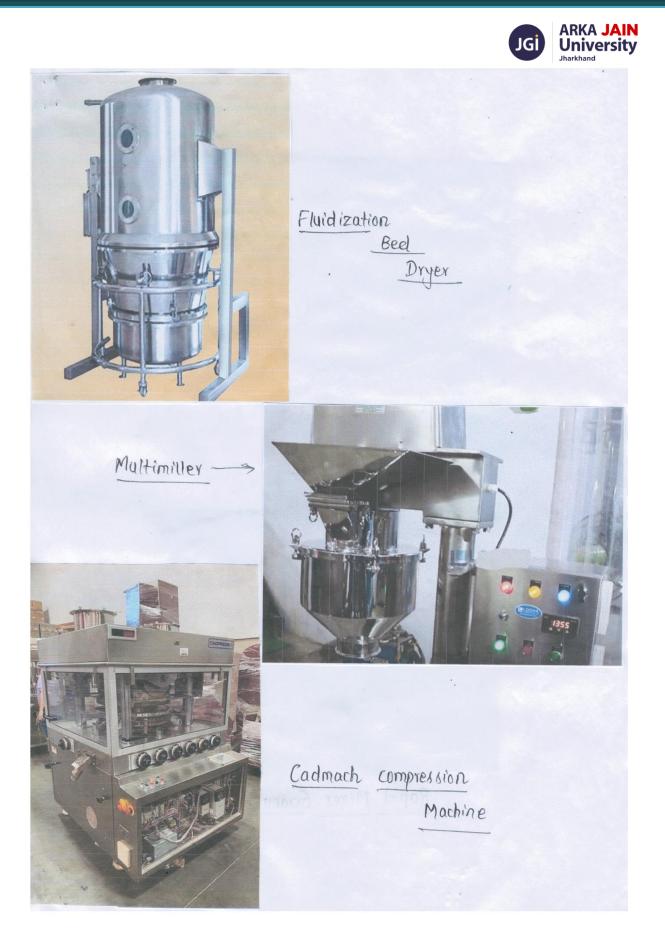


E.g.:- Small netail cartons that contain Blisten pacifis of headache pills Packaging Room !-BOS machine (Blistening Puickly through Servo) This machine is involved in Buster packaging of solid drug products such as tablets, hard capsules and soft gelatin Capsules. L> ACGI - Pampac company Secondary pacifing frea Ly Blister cartonator machine -> It is an automatic machine that packages solid products and Caps Wes. Capsule Area :-Automatic Capsule Filling Machine (AF 407) with an output of up to 40,000 capsules per hour Capsule Elevator -> Designed to eliminate the need for manual feeding of capsules ... Automatic Self-Adhesive labelling Machine :-Automatic labelling combines the printing of labels and barcodes with their simultaneous application on boxes, pallets, sacks or packs, among other.

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Whole Auto Cartonator -> Its a packaging system that can create custom carton boxes ar containers. Liquid Manufacturing Area :-Ly Mainly syrups and suspensions are prepared and manufactured . PM -> Packoging Material Store RM -> Raw Material Stare Passbox -> It is one of the clean room systems, which is used to transfer material from one side to other side through controlled environment in order to avoid airborne cross contamination. Ly manufactured by Suntech Teknopaly Approved Area After cleaning the material followed by physical verification and affir quarantine label, the material is released by BC, &C person shall affir the "APPROVED" label on each container / bags and store person shall transfer the material in the designated approved area as per their storage Conditions.















Primary packaging

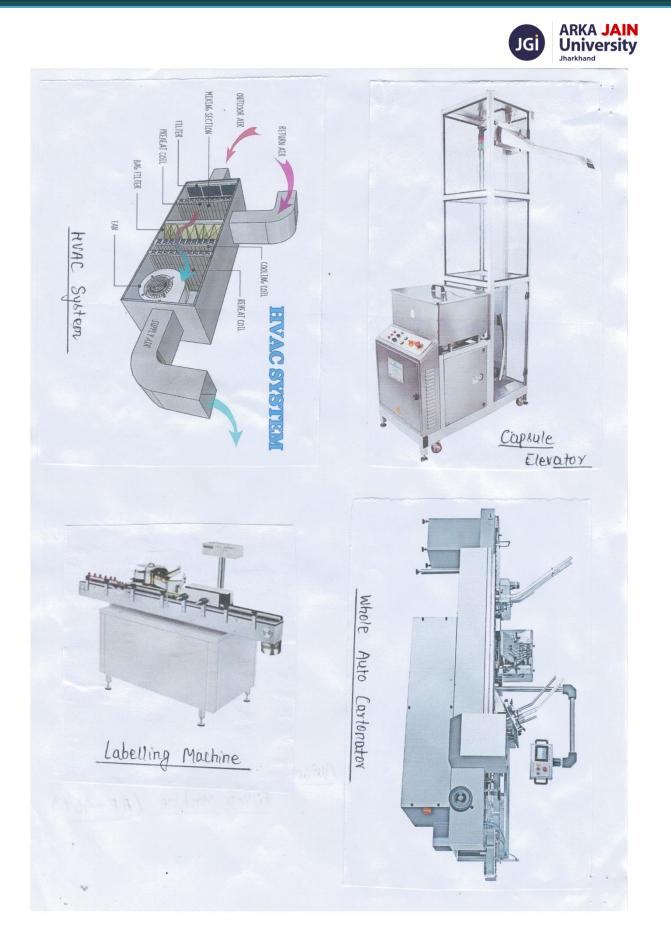


Secondary packaging













Friability Text -> To determine the strength of the tablet Weighing Balance -> To measure the weight of the tablet Tablet handness Text - > Measures the overall handness of the tablet . Disintegration Test Apparatus (DIA) -> For accurate estimation of disintegration time of tablets. Quality Control Department :-Buality of the product must be checked before packaging -> After approval from quality control. The Batch is pacified. Titration -> It is the process of chemical analysis in which the quantity of some constituent of a sample is determined by adding to the measured sample an exactly gnown quantity of another substance with which the desired constituent reacts in a definite, youwn proportion High Performance Liquid Chromatography (HPLC) It is a provers of repowrating components in a liquid mixture -A liquid sample is injected into a stream of solvent (mobile phase) flowing through a column packed with a reparation medium (stationary phase).



Solvert Reservoir [I. I. I. I] Proceeding mam LUNY & lignal to Silica display Sample Processor Jejechory J DETECTOR HPIC Tabe swarte Instruments used :-1) Watery (2695) 2) Waters (2996) 3) Photodiode Array Detector HVAC System :-Heating , ventilation and ain-conditioning system used fare regulating and maintaining the appropriate environment in the manufacturing and storage area in the pharmaceutical industry Primary and Secondary Packaging Area:-Primary packaging - Any packaging material that comes into direct contact with pharmareutical preparations Secondaring packaging -> This is overpacking material that lies outside of the primary packaging.

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