

MOU

MEMORANDUM OF UNDERSTANDING (MOU)

This Memorandum of Understanding(MOU) is entered into on this date 25th September, 2021

BETWEEN


Sarojini Naidu Vanita Pharmacy MahaVidyalaya, 12-5-31/32, Vijayapuri Colony, Tarnaka, Secunderabad – 500017, Telangana, represented by Mr. V. Sainath Dayaker Shastri, Hon. Secretary cum Correspondent,(hereinafter referred as 'SNVPMV',

AND

Mars Therapeutics Private Limited,4-4/1/2,D.Pochampally,Dundigal-Gandimaisamma Mandal, Medchal-Malkajgiri District,Hyderabad - 500043, represented byK. Sri Hari Babu,GM – Technical(hereinafter referred to as "MARS",

WHEREAS:

- A. SNVPMV is one of the reputed pharmacy institutions in India. The institution was started in AY 1997-98 and is approved by AICTE as well as Pharmacy Council of India (PCI) and affiliated to Osmania University. The B.Pharmacy course is accredited by the NBA. SNVPMV imparts world-class education in the core and frontier areas of pharmacy in a modern, corporate styled building, with a total built-up area of 1,00,000 sq. ft. consisting of state-of-the-art facilities such as 12 e-class rooms, 21 modular labs with concealed piping, high-tech computer lab, AC Auditorium & seminar hall, and a well-stacked library on the top floor with an excellent view. SNVPMV strength includes highly qualified & experienced faculty, who are committed to prepare



Sarojini Naidu Vanita Pharmacy Maha Vidyalaya,
Vijayapuri Colony, S. Lalaguda, Tarnaka,
Secunderabad-500017.

For Mars Therapeutics Private Limited


K. Sri Hari babu
Authorised Signatory

tomorrow's health care professionals. In 2016, SNVPMV started 6 Year Course of Pharm D. SNVPMV is starting M.Pharmacy Course from 2021 in Pharmaceutics, Pharm. Analysis and Pharm. Quality Assurance specializations. SNVPMV has been associated with various pharmaceutical Companies in under taking academic research projects. SNVPMV organises regularly seminars/guest lectures / pharma events / hands on training programs as part of industry academia interactions by inviting expert speakers from industry and regulatory areas.

- B. Mars is one of the reputed pharmaceutical company manufacturing of Finish Dose Formulations. Mars is one of the most progressive generics Pharmaceuticals Company established in Hyderabad, India in 1993. Mars is primarily into oral finished dosages (tablets, capsules, and liquids).
- C. SNVPMV would like to seek the expertise of MARS in conducting academic research activities in its premises by inviting experts from MARS to guide the staff and students in various research activities.
- D. SNVPMV would like its faculty members to undergo training at the manufacturing unit of MARS for a specific period annually in various departments which would enrich the faculty with the latest developments in the industry and the knowledge gained shall help the faculty in teaching the students.
- E. SNVPMV would like its students of M.Pharmacy to do research projects of one year at the manufacturing unit of MARS in the concerned department of their specialization like Pharmaceutical Technology, Pharmaceutical Analysis & Quality Assurance etc which will help the students in completing their degree program and learn about the latest developments in the industry.


Sarojini Naidu Venita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S. Lalaguda, Tarnaka,
SECUNDERABAD-500 017.

For Mars Therapeutics Private Limited


Dr. Han Babu
Authorised Signatory


- F. SNVPMV requests MARS to provide an opportunity to the B.Pharm Students to visit the manufacturing plant once in a year to go through the various sections of the production plant and learn about the latest developments.
- G. SNVPMV requests MARS to conduct Campus Interviews annually for its students at the premises of SNVPMV and to provide employment opportunities to the deserving students as far as possible.
- H. SNVPMV seeks the support of technical experts of MARS by participating in the Continuous Educational programs like Seminars, Hands On Training, Symposiums, Guest lectures etc.
- I. MARS is interested to provide the necessary expertise and facilities to the Faculty and the Students to conduct various research activities, training programs and placements as envisaged above by SNVPMV,

Hence SNVPMV and MARS would like to enter into a Memorandum of Understanding for collaboration and co-operation in various activities as mentioned above within area of Skill Based Training, Education and Research.

NOW THEREFORE, IN CONSIDERATION OF THIS MEMORANDUM OF UNDERSTANDING (MOU), THE PARTIES HERETO AGREE AS FOLLOWS:

1. CO-OPERATION:

- a. SNVPMV and MARS are united by their common professional interests and objectives.


Sarojini Naidu Vanita Pharmacy Maha Vidyakalya
Vijayapuri Colony, S. Lalaguda, Tamaka,
SECUNDERABAD-500 017.


For Mars Therapeutics Private Limited


K. Sri Hari babu
Authorised Signatory

- b. SNVPMV and MARS shall establish channels of communication and co-operation for smooth and better conduct of various activities as envisaged in this MOU.
- c. 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.
- d. SNVPMV and MARS co-operation will facilitate effective utilization of the intellectual capabilities of the faculty of SNVPMV providing significant inputs to them in developing suitable teaching / training systems, keeping in mind the needs of the industry (MARS).
- e. The general terms of co-operation shall be governed by this MOU.

2: SCOPE OF THE MOU:

- a. MARS shall agree to undertake basic academic research and development projects of its API's / Formulations by using the Lab facilities available at SNVPMV premises in coordination with the assigned faculty members and students.
- b. The experts of MARS shall coordinate, train and guide the Faculty Members in conducting the academic research and development activities at SNVPMV premises on specified projects.
- c. Once the R&D project is over, it shall remain as the property of MARS and shall not be published in any of the journals without the consent of MARS.



Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S. Lalaguda, Tamaka,
SECUNDERABAD-500 017.



- d. MARS shall provide the required API's, Excipients, Raw materials, equipment needed for the product development whereas SNVPMV shall provide the services of its Faculty, students, and the lab facility to coordinate on the project.
- e. MARS will extend some financial support to SNVPMV for carrying out the academic research projects depending upon the type of project it undertakes at SNVPMV. The financial aspects will be discussed and finalized by the company representatives before the start of the project.
- f. MARS experts shall impart hands on training to the faculty members of SNVPMV at its manufacturing unit for a specific period annually in various departments.
- g. MARS shall allow select number of students of M.Pharmacy to do research projects of one year as part of their curriculum at the manufacturing unit of MARS.
- h. MARS shall allow B.Pharm students of SNVPMV to visit its manufacturing unit annually.
- i. MARS agrees to conduct Campus Interviews annually for the students of SNVPMV and provide employment opportunities to the deserving students.
- j. MARS shall extend support to SNVPMV by providing its technical experts to participate in the Continuous Educational programs like Seminars, Hands On Training, Symposiums, Guest lectures etc.

For Mars Therapeutics Private Limited


K. Sri Hari babu
Authorised Signatory


Sarefini Naidu Venita Pharmacy Maha Vidyalaya
Vijayapur Colony, S. Lalaguda, Tarnaka,
SECUNDERABAD-500 017.

- k. Both Parties SNVPMV and MARS shall obtain all internal approvals, consents, permissions required to take up above activities from its managements.
- l. There is no financial commitment on the part of MARS or SNVPMV as far as this MOU is concerned. If there is any financial consideration, it will be dealt separately by both the parties.

3: INTELLECTUAL PROPERTY:


- a) Nothing contained in this MOU shall, by express grant, implication, or otherwise, create in SNVPMV any right, title, interest, or license in or to the intellectual property (including but not limited to know-how, inventions, patents, copy rights and designs) of MARS.

4: EFFECTIVE DATE & VALIDITY:

- a) This MOU shall be effective from the date of signing by competent authorities at both ends
- b) This MOU shall be valid until it is expressly terminated by either Party on mutually agreed terms.
- c) Both Parties may terminate this MOU upon 30 calendar days' notice in writing. In the event of Termination, both parties have to discharge their obligations.

5: AMENDMENTS :

- a) Any amendment and/or addenda to any clause of this MOU shall be in writing and signed by the PARTIES hereto and shall only after such execution be deemed to form part of the MOU and have the effect of modifying the MOU to the extent required by such amendment or addenda.


Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S. Lalaguda, Tarnaka,
SECUNDERABAD-500 017.

For Mars Therapeutics Private Limited



K. Sri Hari babu
Authorised Signatory

6 : 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.

IN WITNESS WHEREOF PARTIES HERE TO HAVE ENTERED INTO THIS MOU EFFECTIVE AS ON THE DATE AND YEAR FIRST WRITTEN ABOVE.

**For Sarojini Naidu Vanita Pharmacy
MahaVidyalaya**


Authorized Signatory, Maha Vidyalaya
Sarojini Naidu Vanita Pharmacy
Vijayapuri Colony, S. Lalaguda, Tarnaka,
SECUNDERABAD-500 017.

For Mars Therapeutics Private Limited

For Mars Therapeutics Private Limited


K. Sri Hari babu
Authorized Signatory
Authorized Signatory

Sarojini Naidu Vanita Pharmacy MahaVidyalaya	For Mars Therapeutics Private Limited, Hyderabad
12-5-31/32, Vijayapuri Colony, Tarnaka, Secunderabad- 500017 Telangana.	4-4/1/2, D.Pochampally, Dundigal- Gandimaisamma Mandal, Medchal- Malkajgiri District, Hyderabad - 500043
Contact Details: Mr. V. Sainath Dayaker Shastri Secretary cum Correspondent	Contact Details: K. Sri Hari Babu, GM – Technical
Email: secretary@snvpharmacycollege.com	E-mail: sriharibabu@marspharma.com
Web: www.snvpharmacycollege.com	Web: http://marspharma.co.in/

Activities

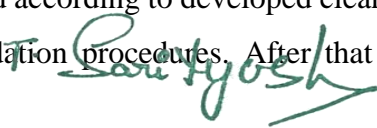


Report on Industrial Visit to Mars therapeutics Ltd.,Hyd.

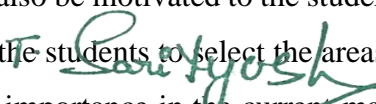
SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

Date of visit	APRIL 6, 2022
Place of visit	Mars therapeutics Ltd., Hyd.
Coordinators from college	Dr.K.Shantakumari, Dr. T.Lavanya, Mrs. G.Sri Lalitha
Approved by	Dr.N.Srinivas (Director), Dr.T.Sarita Jyostna (Principal), Dr.T.Mamatha (Vice Principal)
Participating students	Forty six students (46) of B.Pharm VIII Sem

The Educational visit to Mars therapeutics Limited, Hyderabad was organized by Sarojini Naidu Vanita Pharmacy Maha Vidyalaya on 6th April 2022. 46 B.Pharm VIII Sem students actively participated in the visit which was successfully coordinated by Dr.K.Shanta Kumari, Dr.T.Lavanya & Mrs.G.Sri Lalitha. We started our journey at 9:00 AM from college and reached our destination at 11:30 AM. We divided our students in the batch of 23 students per batch for the visit and the interaction with the industry person. A brief introduction about industry was given by Manager of company. Firstly we were taken to gowning room and provided with gowns and caps, several posters were there instructing proper gowning procedure. The first department that we visited was raw material and packaging material warehousing area where we got to learn how the raw and packaging materials are stored and labeled and we have seen different types of labels with different colors fixed on containers indicating its batch number, lot number, issue date, expiration date, retest date, and storage conditions. They were using in-house software for digital data maintenance. We were also informed about SAB system which they are going to use in future for warehousing data maintenance. Then we were taken to dispensing area where we got to know about the procedure for dispensing of raw and packaging material according to given MRO (material request order) provided by production area. The next area we visited was washing area where different equipment were washed according to developed cleaning procedure, we were informed about cleaning and validation procedures. After that we


PRINCIPAL
Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tarnaka
Secunderabad-500 017.

visited granulation area where we saw different granulation equipment such as rapid mixer granulator, fluidized bed drier. Furthermore, we were also informed about different steps used during granulation such as shifting, sizing, drying etc. Different types of granulation process were used like wet granulation and dry granulation. Meanwhile we got to know about how the sampling have been carried out for dissolution test and what different kind of analysis techniques they were using. After visiting granulation area we moved towards compression area, where we saw compression machine where he explained about different parts of compression machine like stations, tooling, hoppers, and feeders. He also explained about different defects of tablets due to compression variation and its remedies and whole procedure for compression was explained in detail. The next area was capsule filling area where we got to know about different types of fillings like powder, granules, pellets, and mini tablets that are being filled in capsule shell, then next step explained after filling was polishing. After filling area we have seen the coating area where he explained that coating is the most crucial step in tablet manufacturing two coating equipment. He gave us details about fluid bed equipment used for the coating of pellets and granules. The whole coating principle was described in detail. Then we head towards packaging area, the whole packaging area was divided into two parts like primary packaging area and secondary packaging area in primary packaging area different packaging systems were there like blister packaging and bottle packaging, the bottle packaging was in process so we informed about the procedure in detail, we learnt about how the packaging material is selected and tested for its appropriateness and in accordance with the foreign market requirement for the packaging and labeling. In blister packaging area the process used for blistering was semi-automated. Brief information was given about the secondary packaging of the tablets and capsules. Then we moved to QC Department and we have seen various analytical instruments like WATERS-HPLC, TOC, Atomic absorption spectrophotometer, furnace, stability testing chambers for long term, real time and intermediate analysis and also observed various sampling procedures. In this visit students were very eagerly waiting for listening to industrial higher authorities. The technical head of Mars therapeutics.Ltd. conducted very informative session for the students and also be motivated to the students to select their domain and area of interest. He also guided the students to select the areas like QC and production and software for testing etc. and its importance in the current market.


PRINCIPAL
Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tarnaka
Secunderabad-500 017.

Lastly, we thank the industrial authorities for giving this opportunity ended the visit by clicking a group photograph at 2:15 PM and we moved out of the plant.



PRINCIPAL
Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tarnaka
Secunderabad-500 017.



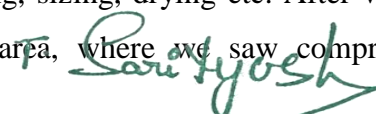
Report on Industrial Visit to MARS therapeutics Ltd., Hyderabad

Date of visit	December 12 th , 2022
Place of visit	MARS therapeutics Ltd., Hyderabad
Approved by	Dr. N. Srinivas (Director), Dr. T. Saritajyostna (Principal), Dr. T. Mamatha (Vice-Principal)
Faculty members attended	Mrs. R. Prasanthi, Mrs. Ch. Bhargavi and Mrs. N. Indira

The Industrial visit to MARS therapeutics Limited, Hyderabad was organized by Sarojini Naidu Vanita Pharmacy Maha Vidyalaya on December 12th, 2022.

Mrs. R. Prasanthi, Mrs. Ch. Bhargavi and Mrs. N. Indira Rani actively participated in the visit. We started our journey at 9:00 AM from college and reached our destination at 11:30 AM. Interacted with the industry persons, we met Mr. M. V. Rao (Production Manager) Mr. Naveen Reddy (QC Manager). Firstly, we were taken to change room and provided with aprons, masks and caps. The first department that we visited was raw material and packaging material warehousing area where we got to learn how the raw and packaging materials are stored and labeled indicating its batch number, lot number, issue date, expiration date, retest date, and storage conditions. Then we were taken to dispensing area where we got to know about the procedure for dispensing of raw and packaging material according to given MRO (material request order) provided by production area.

The next area we visited was washing area where different equipment was washed according to developed cleaning procedure, we were informed about cleaning and validation procedures. After that we visited production department, in that granulation area where we saw different granulation equipment such as rapid mixer granulator, fluidized bed drier, different steps used during granulation such as shifting, sizing, drying etc. After visiting granulation area, we moved towards compression area, where we saw compression


PRINCIPAL
Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S. Lalaguda, Tamaka
Secunderabad-500 017.

machine, he explained about different parts of compression machine like stations, tooling, hoppers, and feeders. The next area was capsule filling area where we got to know about different types of fillings like powder, granules, pellets, and mini tablets that are being filled in capsule shell and polishing.

Then we head towards packaging area, the whole packaging area was divided into two parts like primary packaging area and secondary packaging area in primary packaging area different packaging systems were there like blister packaging and bottle packaging, the bottle packaging was in process so we informed about the procedure in detail, we learnt about how the packaging material is selected and tested for its appropriateness and in accordance with the foreign market requirement for the packaging and labeling. In blister packaging area the process used for blistering was semi-automated. Brief information was given about the secondary packaging of the tablets and capsules. Then we moved to QC Department and we have seen various analytical instruments like WATERS-HPLC, TOC, Atomic absorption spectrophotometer, dissolution apparatus, tablet tester, centrifuge, K.F. Auto titrator, muffle furnace, stability testing chambers for long term, real time and intermediate analysis and also observed various sampling procedures. The technical head of Mars therapeutics Ltd. conducted very informative session. Folasil, Eugacid gel, Serax, Serax forte, Eugacid DSR tablets, Ferrous fumarate, cyanocobalamin 50mg tablets, Paracetamol bilayer tablets, Ibuprofen,, Metformin, Calcium with Vitamin D3, folic acid tablets were prepared in Mars therapeutics Ltd., Hyderabad. We came out of plant by 1.30 pm. We thank the management and industrial authorities for giving this opportunity.



PRINCIPAL
Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tarnaka
Secunderabad-500 017.

MARS THERAPEUTICS LTD.



T. Sarathyosh

PRINCIPAL

Sarojini Naidu Vanita Pharmacy Maha Vidyalaya
Vijayapuri Colony, S.Lalaguda, Tarnaka
Secunderabad-500 017.