

REPORT ON INDUSTRIAL VISIT TO MARS THERAPEUTICS

Ltd., HYDERABAD.

DECEMBER 12TH, 2023

SAROJINI NAIDU VANITA PHARMACY MAHA VIDYALAYA

Report on Industrial Visit to MARS therapeutics Ltd., Hyderabad

Date of visit	December 12 th , 2023
Place of visit	MARS therapeutics Ltd., Hyderabad
Approved by	Dr. N. Srinivas (Director), Dr. T. Sarita Jyostna (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, 2023.

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 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 filings 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.

MARS THERAPEUTICS LTD.



Quality Control



PRODUCTION



QUALITY ASSURANCE

