

School to Lab Programme on 28.02.2022

S.R.R. & C.V.R. GDC (A) - Dept. of Chemistry

Extension Activity – National Science day

On the occasion of national science day celebrations - 2022, Dept. of Chemistry in collaboration with dept. of botany and all other science departments of S.R.R. & C.V.R. GDC, Vijayawada organized “School to Lab programme” to the school children of “Tammiri mallikarjuna Rao Chandramathi” Municipal Corporation high school, Machavaram on 28.02.2022. Nearly 250 students participated in this programme and visited all the 5 chemistry laboratories.

Objective of this programme:

- ✚ To create scientific temper in school students
- ✚ To provide scientific exposure to school students
- ✚ To cherish and understand the basic scientific facts
- ✚ To promote scientific interest from an early age.

Programme at a glance

Dept. of Botany has taken the prior permission from the headmaster of that school to take the students of class VI to class IX to our college on 28.02.2022. On the national science day nearly 250 students accompanied by 6 teachers came to the college in morning session. Opening remarks and importance of national science day is elucidated by our principal, Dr. K. Bhagya Lakshmi, and in-charges of science dept.





Students listening to our principal ma'am explaining the Raman effect and greatness of SIR. C.V.Raman.

Later students are distributed to all the science laboratories accompanied by a teacher.



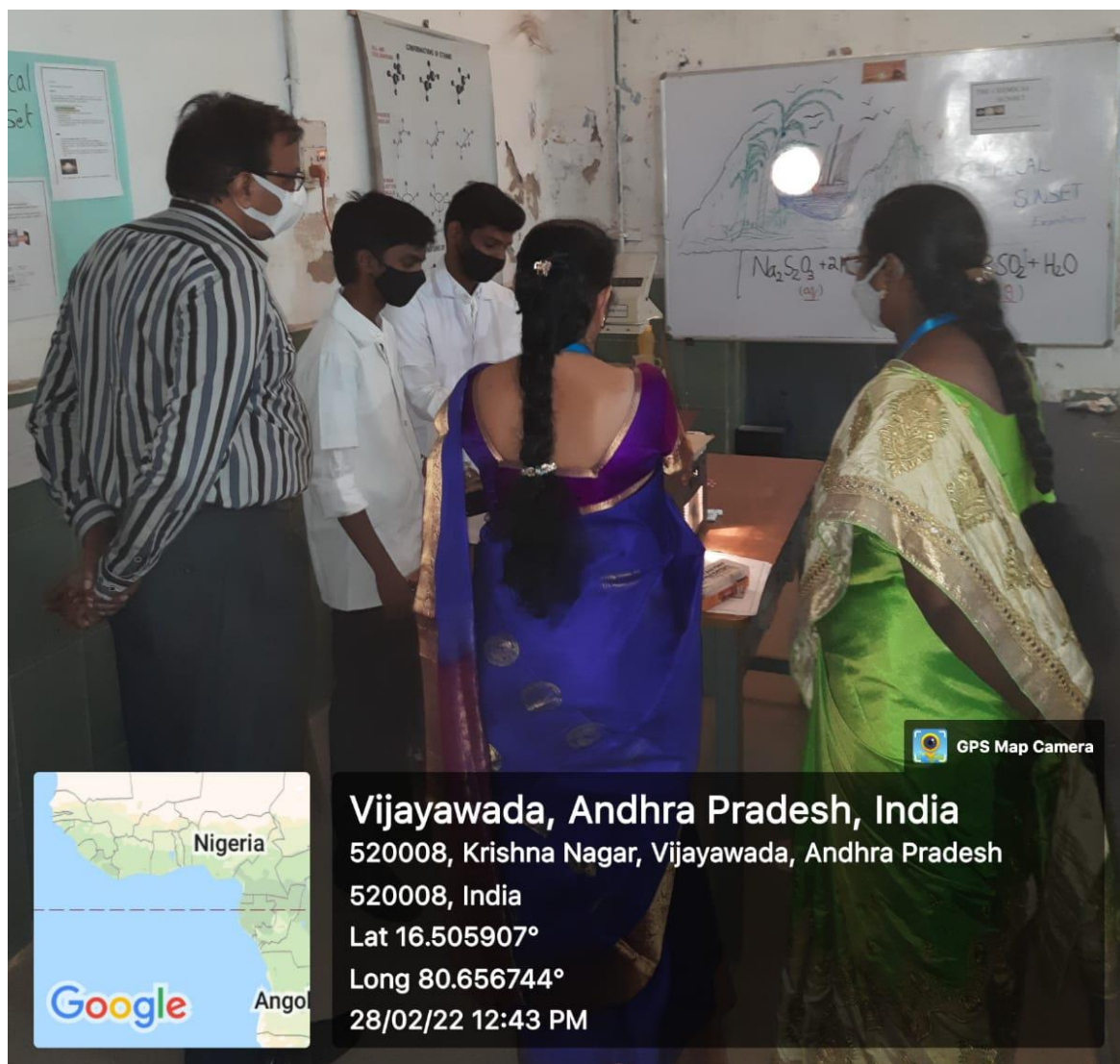
Dr. V. Srinivasa Rao, Incharge- Dept. of Chemistry explaining the milestones of scientific developments

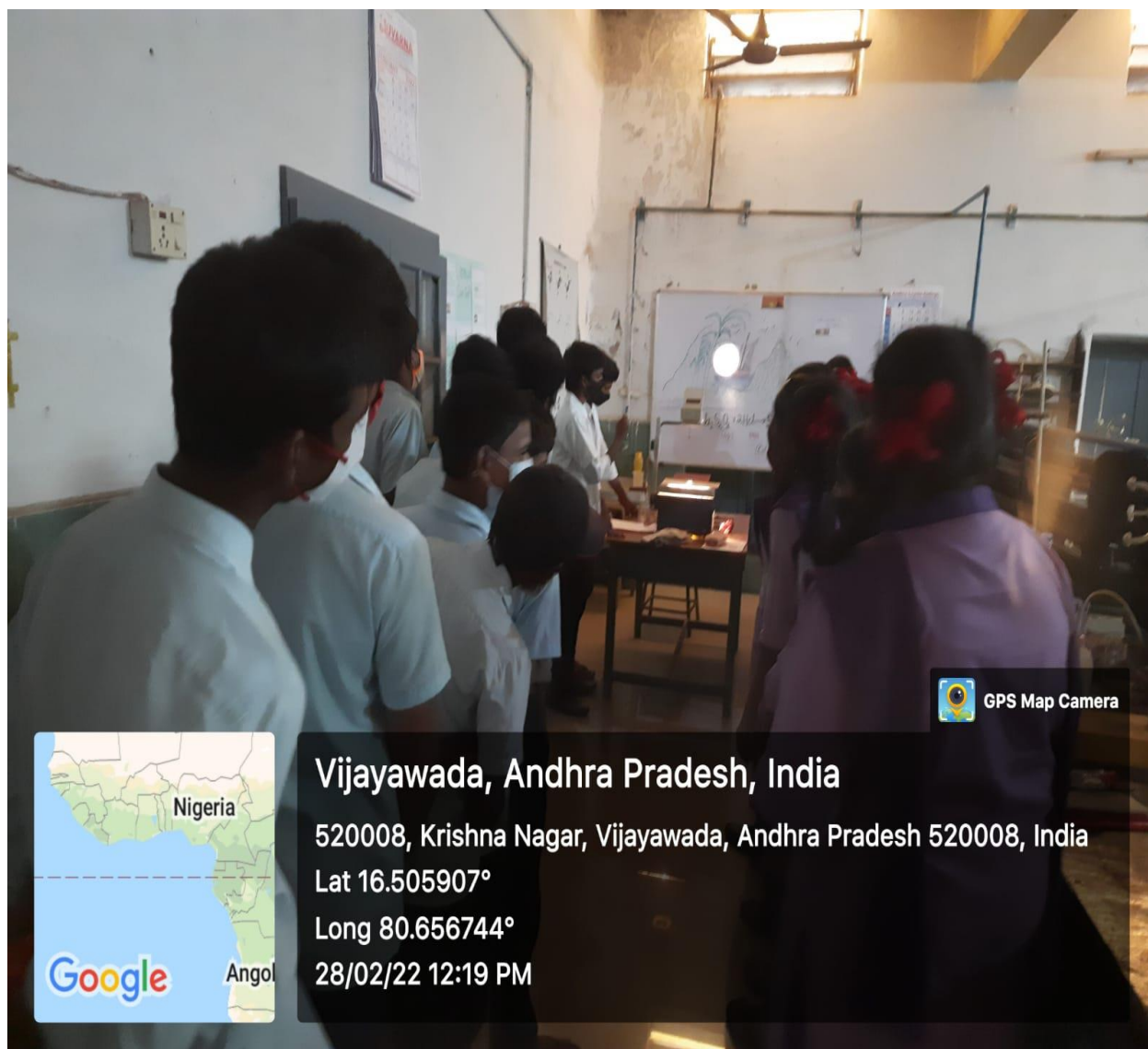
Chemistry department visit

Students visited all the 5 chemistry laboratories. Various lab experiments, charts, instruments and apparatus are exhibited in chemistry labs.

1st year Lab: In this lab, we arranged chemical sunset experiment poster presentation on Flame test's of different metals, action of centrifugal force, Golden spangles test for lead.

Students express their doubts and enjoy the magical reactions of chemistry.





School students observing the Tyndal effect of colloidal solution demonstrated by Dr.V. Srinivasa Rao, Incharge- Chemistry.

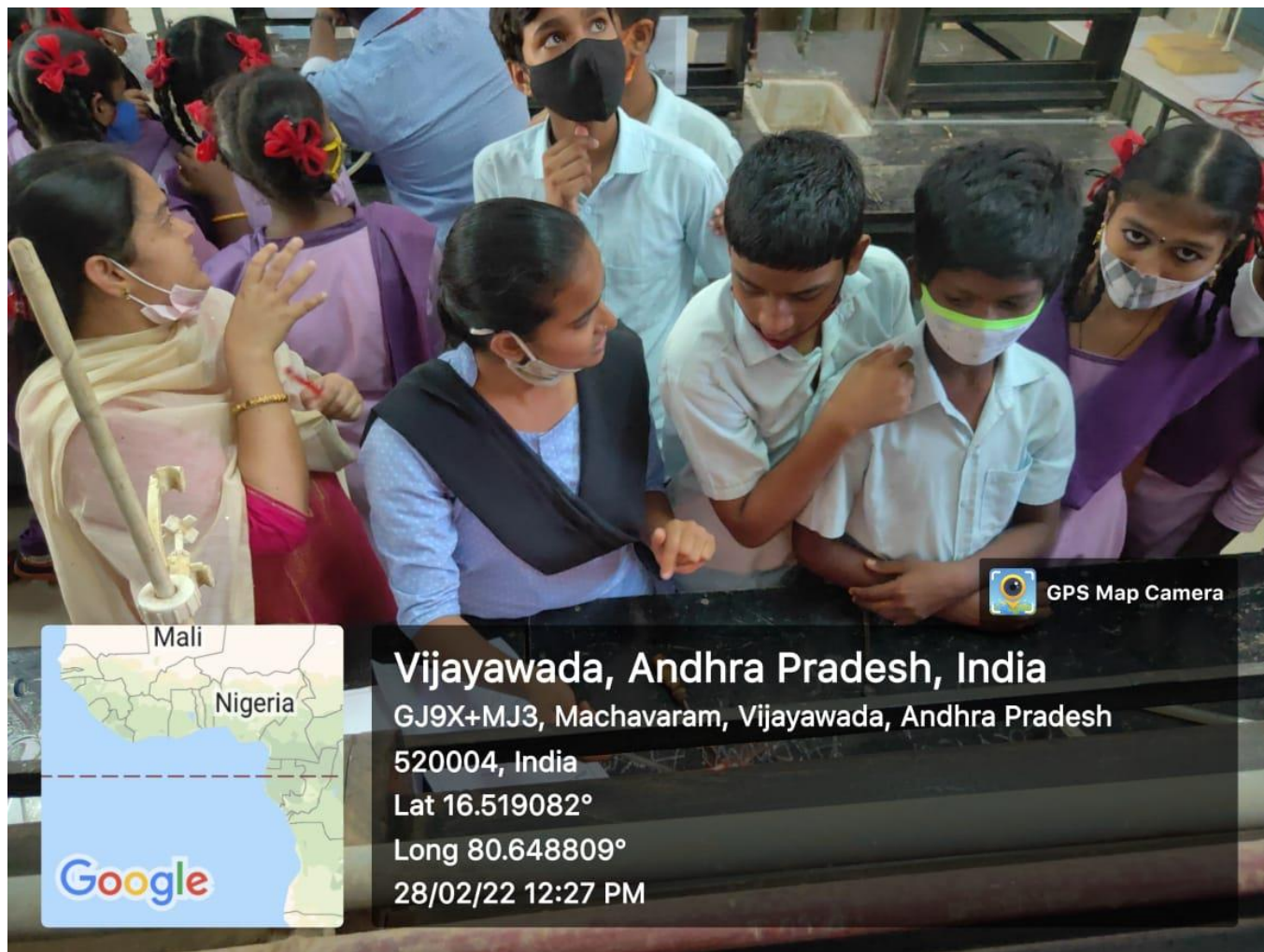
Chemical sunset experiment: Colloidal sulphur formation by reaction between hypo and HCl , as the light scatter from the colloidal sulphur, its color changes from white to yellow, to orange, to red, to black- thus its name chemical sunset.



Smt. Lakshmi Janaki, Lecturer in chemistry demonstrating the metal characteristics and golden spangles experiment.



Chemistry Lab 2: In this lab, different instrumental techniques like potentiometer, conductivity meter, pH meter, de-ionizer, distillation unit and some glass apparatus are displayed. Student volunteers at each instrument explained their importance and usage. Analysis of some organic compounds by preliminary tests like litmus paper test, ignition test, solubility test etc. has been made displayed. Further students observed the states of different chemicals present in the laboratory.



B.Sc Student explaining the litmus paper test and ignition test.



Functioning of Condensation unit



Usage of de-ioniser and importance of de-ionized water for chemistry experiments

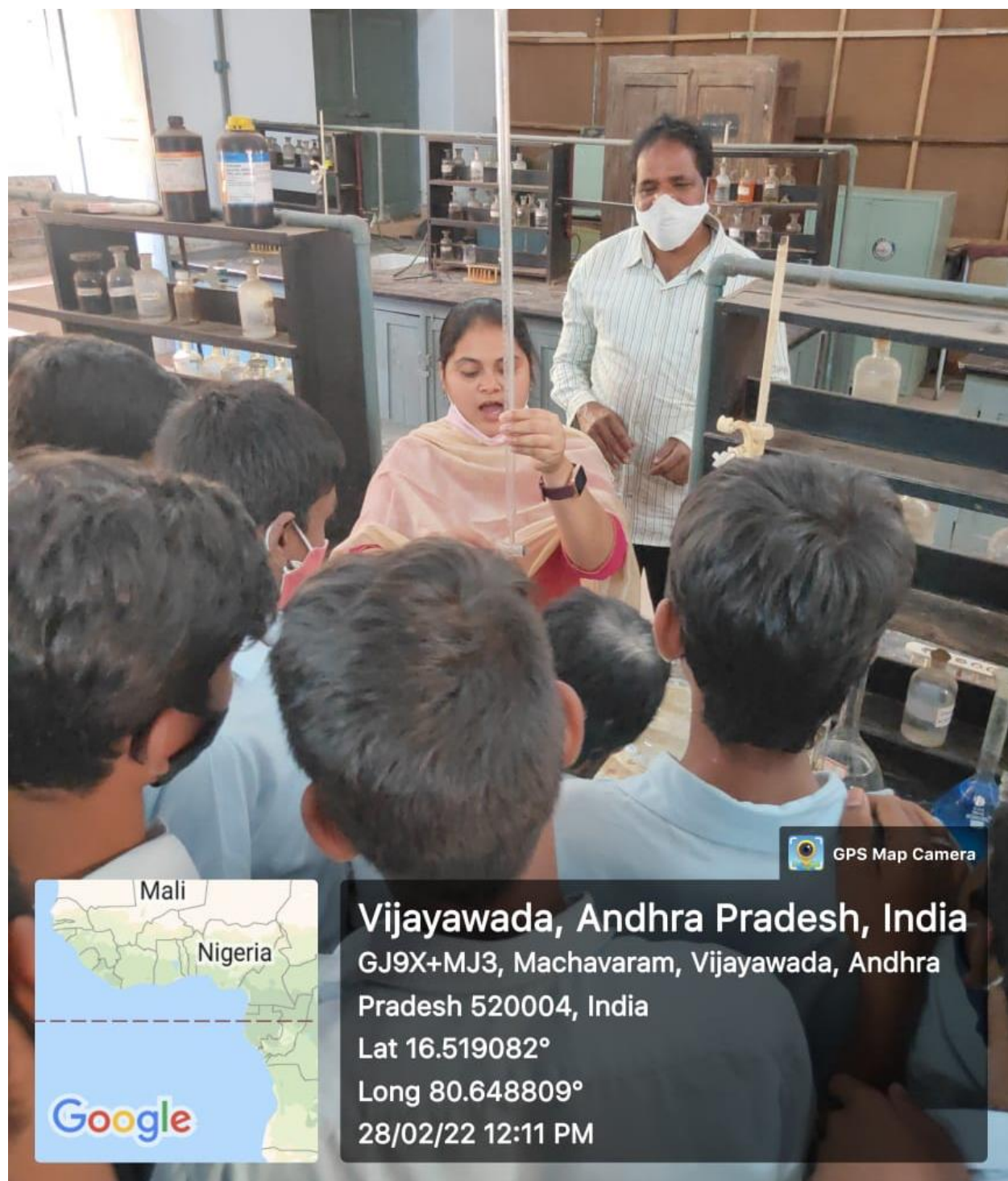


Glass apparatus exhibition to school students

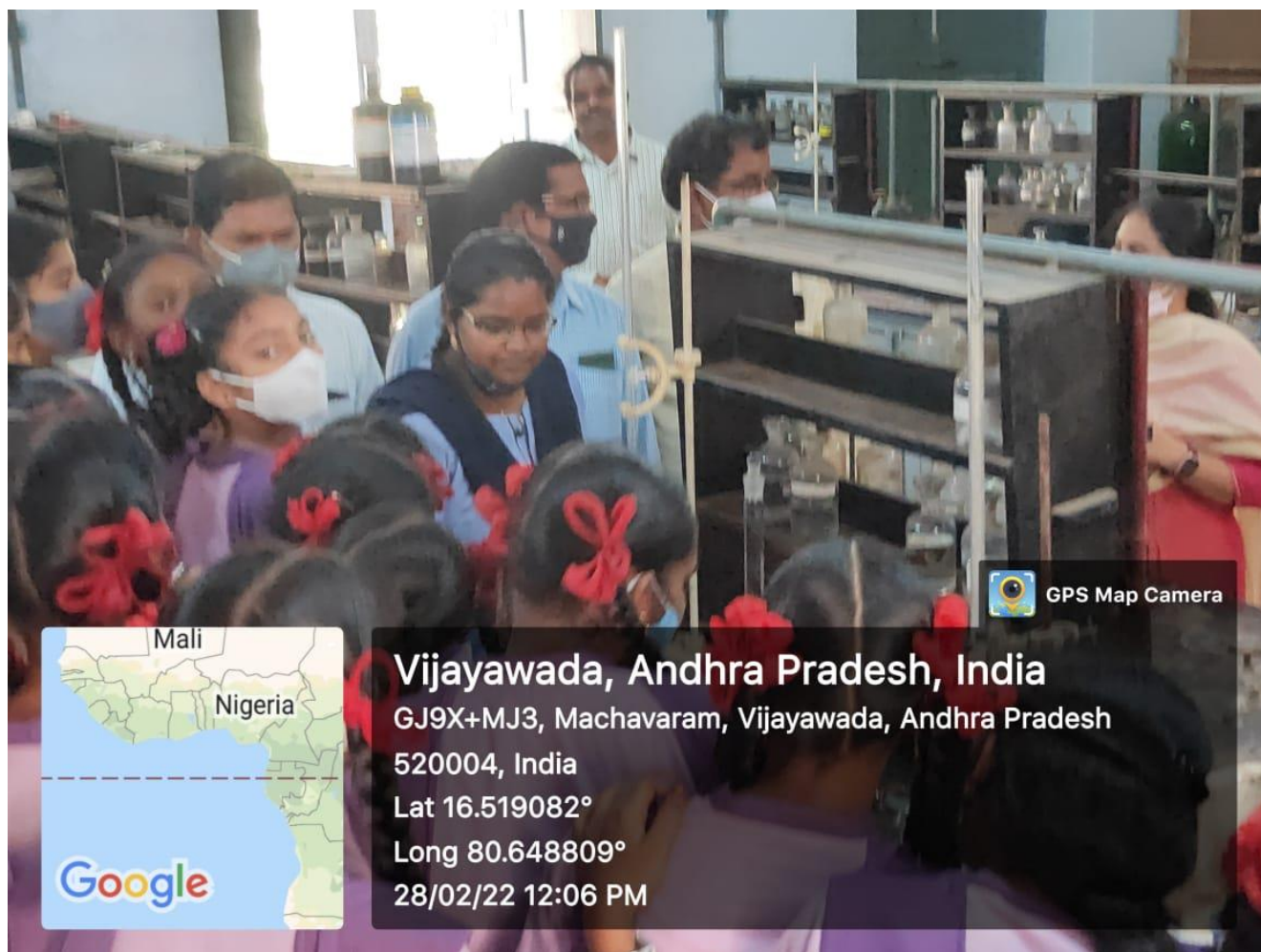


Functioning and importance of double-distillation unit and double distilled water

Chemistry Lab 3: Different chemicals and glass apparatus are exhibited in this lab.



Dr. Sk. Beebi, Lecturer in chemistry, demonstrated the usage of glass apparatus



Student volunteers exhibiting the commonly used chemicals (acid and base) and their smells. Sri. K.V.S. Prasad, Dr. G. Nagarjuna, Sri. G.V.S. Singh enlightened the students with some of basic scientific topics.

PG students presented posters on recent scientific issues and school students visited the PG lab.

Conclusion: This type of extension activity promotes the science and scientific literacy. This school to lab programme provides the students with an opportunity to collaborate with college teachers and integrate new perspectives in science with informal environment. School students learned many basic things and has given positive feedback.

Documentation by Dr. Sk. Beebi, Chemistry dept.