

I am **Aarsheya Jasrotia** presently a student at Air Force School Jammu, I have recently entered 10th standard. In this year 2022, I had the marvelous opportunity to attend the renowned YUVIKA 22 program under the able guidance of my science mentor Mrs.Sarojini Pandita ma'am. She is the one who pushed me to fill out the form and I am ever thankful to her for this. My journey started on the 15th of May 2022; the tour was to officially start from 16th of May 22. As the program was to be conducted in 5 ISRO centers, I was given the center (SAC, Space applications center, Ahmedabad). I was also fortunate enough to be able to meet their director Nilesh Desai sir as he gave away our mementoes. The program was scheduled to have a series of visits, talks and lectures by various eminent scientists. I didn't hold back on any of my doubts, and I am grateful that I didn't. I really enjoyed making new friends and I enjoyed my stay there. We weren't allowed to carry our phones to most of the places, but we still managed to have quite a few memorable pictures taken.



These pictures are from the conference and the lecture hall, the residential area respectively.

We also visited the science city in Ahmedabad, Gujarat as a part of our tour. We received badges there with certificates and had a lot of fun. We also visited their famous robot café there and it was epic. Here is a memorable click from there:



Here is one from the visit at vedshala



My favorite trip was to the Institute of Plasma Research, Ahmedabad



At the lecture before the exciting visit. We got a chance to visit SST-1, we got to know about an interesting device called a tokamak which can store plasma for us to study it. SST-1 was one of the Tokamaks we saw, and it was amazing. We learned that it uses electric current in order to store the plasma, it revolves around the main solenoid in a torus like shape. We saw interesting instruments like the **Jacob's ladder** which used plasma running up on two electrodes to create a ladder like effect. We saw a beautiful **plasma lamp, A machine using beautiful streaks of plasma enclosed in a glass insulator**. A machine recycling all kinds of waste using plasma. We saw how plasma nitriding occurs, how intricately nitrogen plasma is used to enhance the hardness and durability of a metal structure. It was all a sight to behold. We learned that superconductors like niobium titanium, when cooled down to an extreme temperature with liquid helium, can be used for its magnetic properties, which is also used in the SST 1. Due to it having almost no resistivity, it doesn't heat up easily and works very efficiently, much easier to use and more efficient than an ordinary copper wire.

We visited a satellite integration unit too, a clean room (a room kept extremely clean to assemble satellite parts):



To conclude this chapter (in Ahmedabad) , A picture with Ram Rajak Sir :



New Chapter – Shar (Srihari Kota high altitude range)

IMPORTANT EVENTS THAT HAPPENED –

MET S SOMNATH SIR (CHAIRMAN OF ISRO)

WITNESSED RH 200 ROCKET LAUNCH (ROHINI 200)

HAD A PERSONAL INTERACTION WITH SHAR DIRECTOR, AND YUVIKA VISION PLANNER ALEX SIR

MET DIRECTORS OF ALL 5 CENTERS

WENT TO THE ROCKET LAUNCH VIEWING STATION WHERE THE PRIME MINISTER

WITNESSES ROCKET LAUNCHES, HAD A CHANCE TO SIT WITH THE DIRECTORS AT THE PM'S SEAT.



WITH NILESH DESAI SIR (DIRECTOR, SAC)

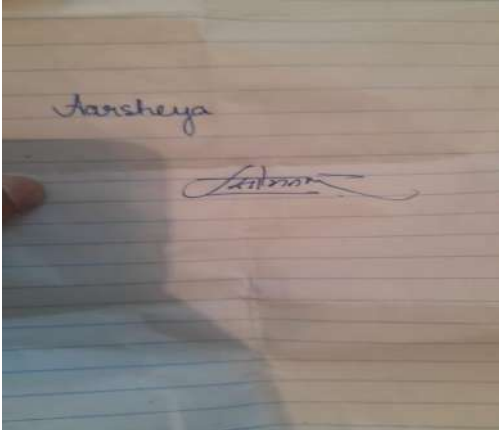


WITH HIREN SIR, SAC



WITH CM NAGRANI SIR, TISA RAM SIR





SOMNATH SIR'S AUTOGRAPH





RETURNING FROM SHAR

THIS WAS THE END OF MY BEAUTIFUL YUVIKA JOURNEY, I AM THANKFUL TO EVERYONE WHO HAS CONTRIBUTED IN MAKING THIS JOURNEY SO EXQUISITE AND EVENTFUL, AS DUE TO THIS JOURNEY I AM NOW FOREVER CHANGED . JAI HIND.