

## **INSPIRE AWARD-MANAK(2020-21)**

It is with immense pride that Adhiraj Madan of class X of K.R. Mangalam World School, GK-II has been selected for INSPIRE AWARDS – MANAK which is a Delhi State Level Exhibition and Project Competition ( SLEPC ). We take pride to announce that he has received the prize money of ten thousand to prepare and display his exhibit.

The school wishes him the best for his project!



## FIGHTING FOAM WASTE WITH RECYCLED FILTERS

I WAS STUNNED TO SEE HOW MUCH POLYSTYRENE WASTE WAS LITTERED ON THE ROADS AND IN THE CITY FOREST .

POLYSTYRENE IS SO DIFFICULT AND EXPENSIVE TO RECYCLE THAT MOST COMMUNITIEES DON'T EVEN MAKE THE EFFORT TO INCLUDE IT IN THERE RECYCLING EFFORTS.

POLYSTYRENE IS THAT MATERIAL WHICH IS USED IN DISPOSABLE CUPS AND GIVES A BLACK SMOKE ON BURNING,THIS IS BECAUSE IT IS 90% CARBON

SO IT CAN BE USED FOR FILTERING WATER WHICH WILL NOT ONLY DECREASE POLYSTYRENE WASTE FROM ANY LANDFILL BUT IT WILL ALSO MAKE WATER SAFE TO DRINK

TO MAKE THE FILTER ALL WE NEED IS SOME STYROFOAM WASTE AND HEAT IT AT 100DEGREE . THEN NEED TO PYROLYS IT AT 300 DEGREE AND THEN CRUSHING IT TO DESIRED SIZE. THEN THROUGH CHEMICAL TREATMENT + HEATING IT AT 500 DEGREES TO GET ACTIVATED CARBON

THE PROCEDURE TO MAKE THIS FILTER ISN'T MUCH EXPENSIVE AND IT TAKES ABOUT 10 HOURS TO MAKE IT.

