

## NAME OF PROJECT- DESALINATOR

1. NAME OF THE STUDENT- AWANISH DUKARE
2. FATHER'S NAME- VINOD DUKARE
3. CLASS- IX
4. NAME OF TEACHER- MISS ANKITA
5. SCHOOL NAME- KENDRIYA VIDYALAYA C.R.P.F YELAHANKA BANGALURU.
6. ADDRESS- DODDABALLAPUR Rd, YELAHANKA, BANGALURU, KARNATAKA 560064

### PROJECT SYNOPSIS:

AIM - THE PROJECT AIMS TO CREATE A MACHINE WHICH CONVERTS UNHEALTHY OR IMPURE SEA WATER INTO WATER WHICH IS FIT FOR HUMAN USE.

PROBLEM IT ADDRESS –THE LESS AMOUNT OF HEALTHY WATER AVAILABLE TO HUMANS, WHICH LEAD TO WATER SCARCITY AND NOT ALL THE PEOPLE ARE ABLE TO GET SUFFICIENT SUPPLY OF WATER.

### IMPORTANCE IN DAY- TO- DAY LIFE-

GIVES EFFICIENT SUPPLY OF WATER TO ALL THE LIVING BEINGS.

NO WATER SCARCITY CAN OCCUR IN ANY PART OF THE WORLD.

### DETAILS OF PROJECT-

1. IN FIRST CHAMBER THE WATER IS SENT THROUGH THE PROCESS OF FILTRATION WHERE ALL THE 'TDS' PARTICLES ARE SEPARATED FROM THE WATER.
2. THEN THE WATER IS PASSED IN THE SECOND CHAMBER WHERE IT UNDERGOES REVERSE OSMOSIS, THE CHAMBER IS DIVIDED INTO TWO HALVES SEPARATED BY A SEMI-PERMIABLE MEMBRANE, THE SIDE WHICH HAS MORE WATER LEVEL IS COMPRESSED AND THE WATER IS FORCED TO GO IN THE OTHER HALF AND ALL THE UNNECESSARY PARTICLES ARE LEFT IN THE FIRST HALF.
3. THEN IT IS PASSED IN THE EVAPORATION CHAMBER, WHERE IT IS BOILED AND THE WATER VAPOUR GO UP AND CONDENSE AND GO IN THE FOURTH CHAMBER THROUGH A PIPE AND THE UNNECESSARY PARTICLES ARE LEFT IN THE BEAKER.
4. THEN IT IS PASSED IN THE FOURTH CHAMBER, WHERE ALL THE NECESSARY CHEMICALS AND MINERALS ARE ADDED TO WATER.
5. NOW, THE WATER OBTAINED IS FIT FOR HUMAN USE.



Picture of project-