SHREE SARASSWATHI VIDHYAAH MANDHEER MATRICULATION HIGHER SECONDARY SCHOOL

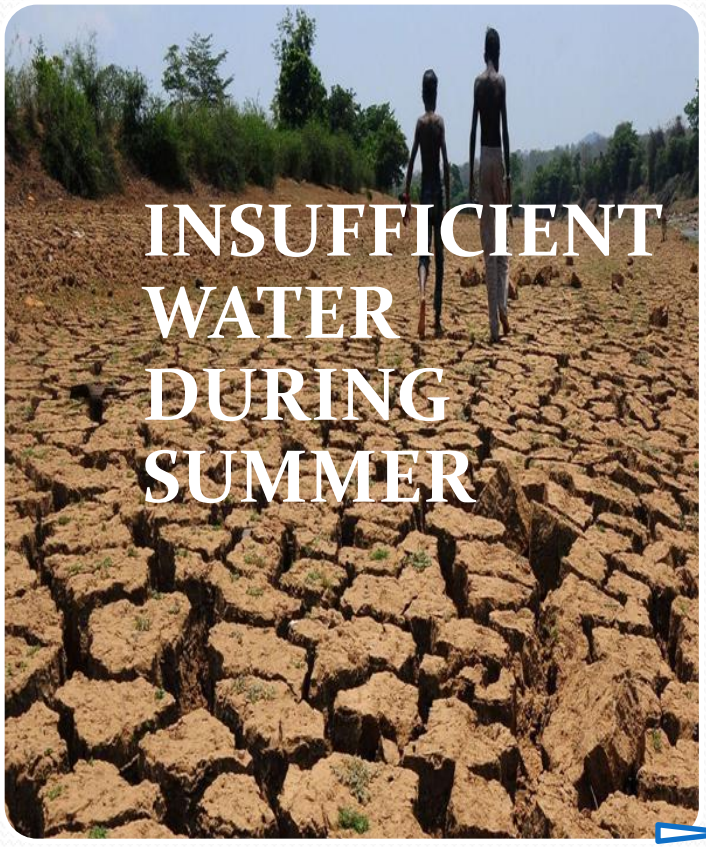
PROJECT BY

S.PAVITHRA

B.A. SUNANTHA

WATER CONSERVATION-UTILISATION

PROBLEMS


INSUFFICIENT
WATER
DURING
SUMMER


WATER
STAGNATION
DUE TO
HEAVY RAIN

OUR PROJECT

COLLECT EXCESS WATER WHICH STAGNATES ON THE ROADS AND USE IT DURING SUMMER

HOW??

USING SIPHON MECHANISM

A SIPHON IS A MECHANISM FOR MOVING WATER FROM ONE RESERVOIR TO ANOTHER

IT WORKS ON BERNOULLI'S PRINCIPLE

INCREASE IN SPEED OF FLOW OF WATER IS ACCOMPANIED WITH A DECREASE IN PRESSURE

MATERIALS REQUIRED

ASSEMBLING THE MATERIALS

SIPHON PIPE

STAND PIPE

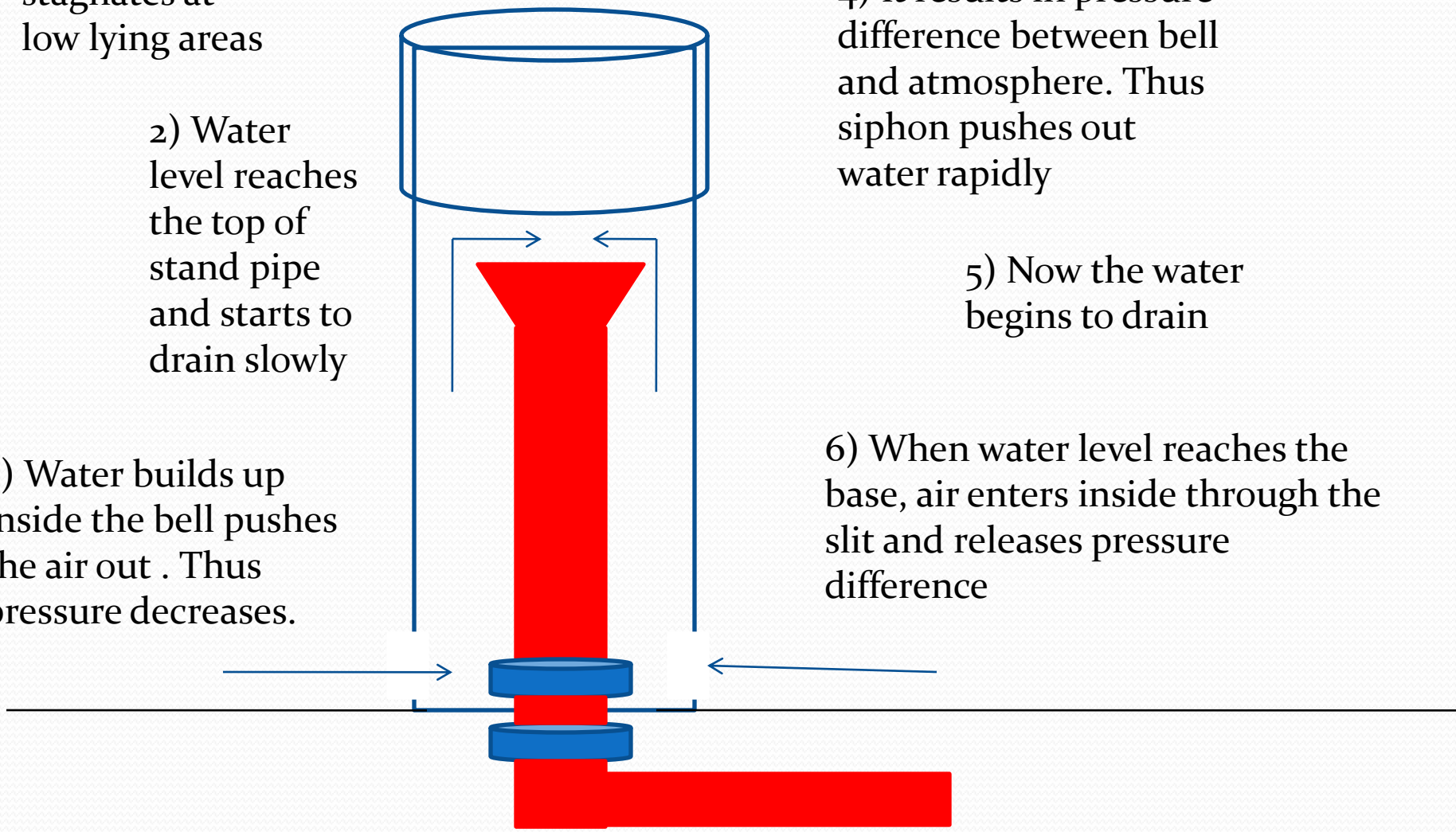
MODEL OF OUR SIPHON

HOW IT WORKS

1)When it rains, water stagnates at low lying areas

2) Water level reaches the top of stand pipe and starts to drain slowly

3) Water builds up inside the bell pushes the air out . Thus pressure decreases.

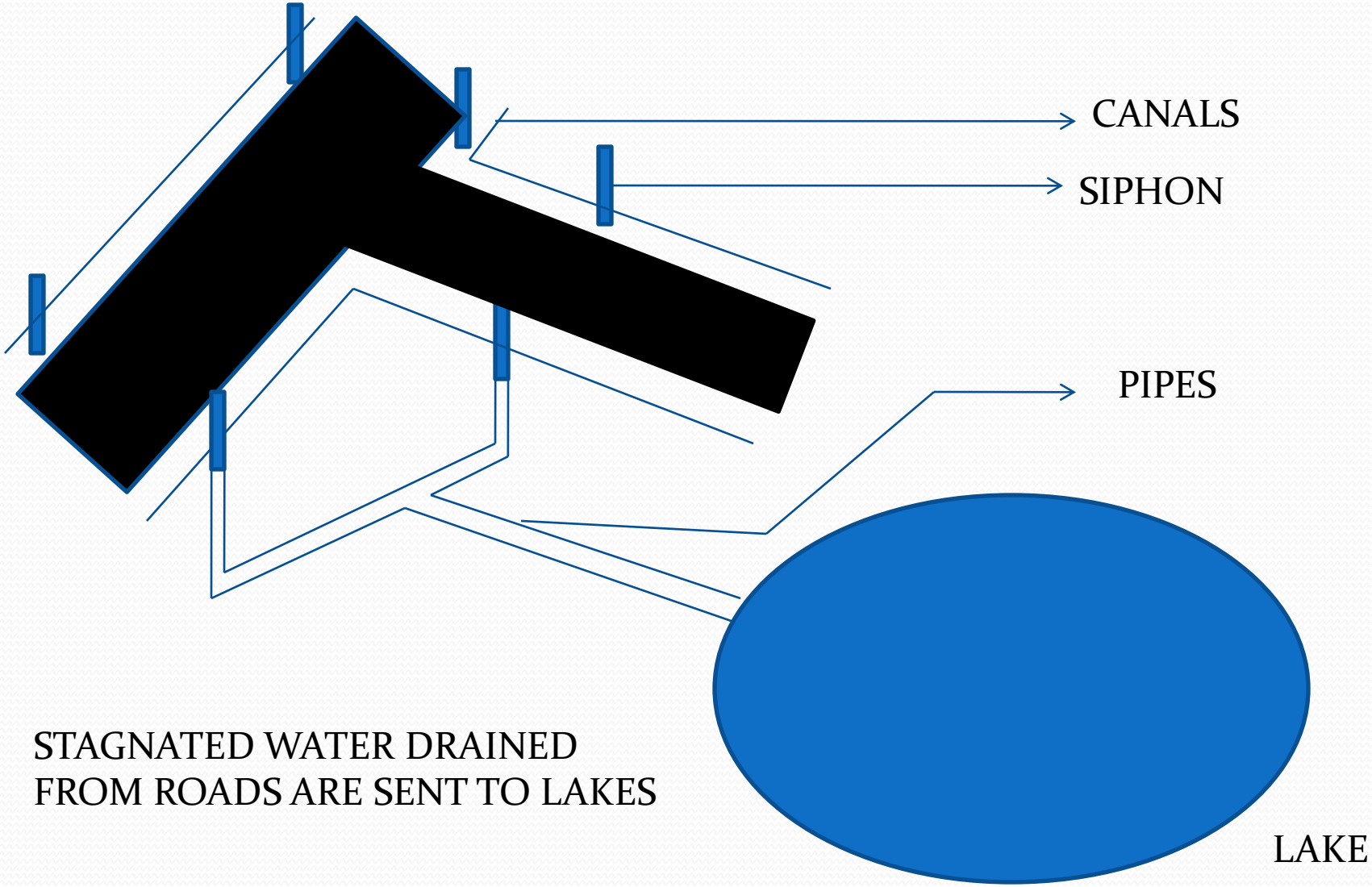


4) It results in pressure difference between bell and atmosphere. Thus siphon pushes out water rapidly

5) Now the water begins to drain

6) When water level reaches the base, air enters inside through the slit and releases pressure difference

USAGE



STAGNATED WATER DRAINED
FROM ROADS ARE SENT TO LAKES

BENEFITS

DAMAGE DUE TO STAGNATION OF WATER CAN BE REDUCED BY REDUCING THE STAGNATION OF WATER

WATER SCARCITY CAN BE REDUCED

NO. OF WATER RESERVOIRS WILL BE INCREASED

THANK YOU