

Aavishkar research competition 2028

EMERGENCY ROBOTIC WATER RESCUE SYSTEM



CATEGORY: ENGINEERING AND TECHNOLOGY

RELEVANCE

DRONE BASED PLATEFORM: EQUIPPED WITH A PRECISE DROPPING MECHANISM FOR RESQUE EQUIPMENT

INNOVATIVENESS

RESCUE EQUIPMENT: LIFE JACKET TUBE FOR IMMEDIATE ASSISTACE

METHODOLOGY

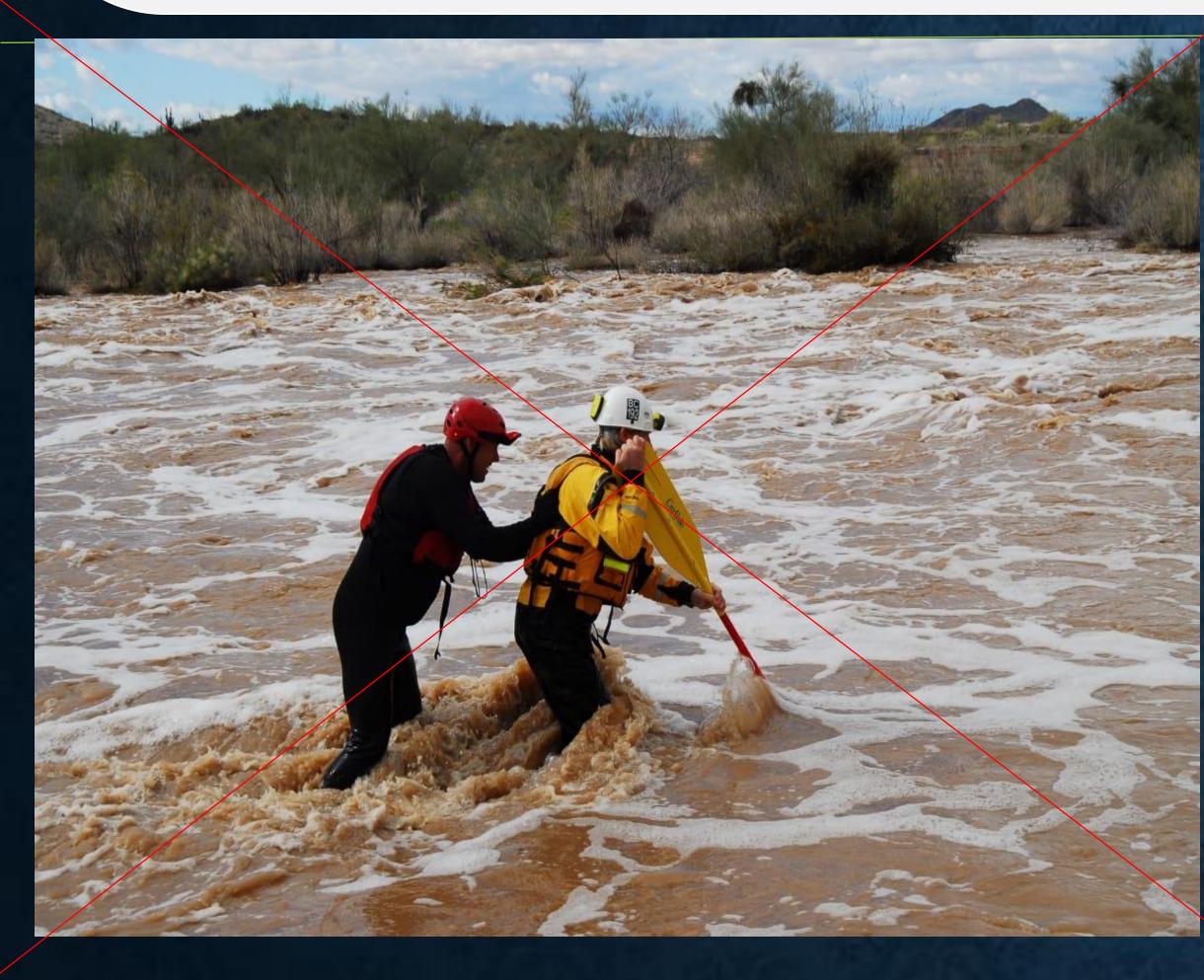
A. DETECTION: DRONE DETECTS A PERSON IN DISTRESS USING SENSOR

B. NAVIGATION: DRONE NAVIGATES TO THE

VICTIMS LOCATION

C. DEPLOYEMENT: RESCUE EQUIPMENT IS DROPPED DIRECTLY TO THE VICTIM'S LOCATION

D. VICTIM RECEIVES IMMEDIATE FLOATION SUPPORT UNTIL RESCUE TEAM ARRIVES



FOR SAVING
ONE
PERSON
REST THREE





PROBLEM:-

TRADITIONAL RESCUE METHODS FOR DROWNING VICTIMS OFTEN FACE SIGNIFICANT DELAY, PUTTING LIFE AT RISK

SOLUTION:- THE ERWRS
OFFERS A RAPID AND
EFFICIENT SOLUTION USING
DRONE BASED TECHNOLOGY

OUTCOME/CONCLUSION

THE ERWRS REPRESENTS A SIGNIFICANT ADVANCEMENT IN WATER SAFETY COMBINING INNOVATION WITH PRACTICALITY. BY LEVERAGING DRONE TECHNOLOGY THIS SYSTEM AIMS TO SAVE LIVES AND SET NEW STANDARD IN EMERGENCY RESPONSE