

SAR Operation At Ranjit Sagar DAM

Project Overview

In 2021 August , Eyerov participated in a search and rescue mission along with the Indian Navy. A Helicopter was crashed in ranjit sagar dam , near Pathankot. An underwater ROV equipped with High definition camera , Side scan Sonar and Imaging sonar employed for the mission and team Eyerov Successfully spotted the location of helicopter parts and dead bodies at a depth of around 80 meters



Site conditions

- A water depth of 80-90m
- Very Poor water visibility
- Accurate location or coordinates were not available
- We reached the after 6 days of incident

EyeROV Solution

Since the water visibility was very poor, A combination of sidescan sonar and imaging sonar were used to locate the suspected areas. When we found such points, the ROV will be navigated near to the suspected objects . Once the ROV reaches near to the objects , Camera visuals can be used to view the objects.

Execution Plan

ROV deployed from a boat near to the suspected area and Sidescan sonar was employed to find suspicious objects. ROV Navigated near to the suspected objects using coordinates given by imaging sonar To a depth of 78 meters swept the area around that region to find visual confirmation of the subject .Once it reached the object, the High Definition camera was giving a live stream to the control station and a the subject was spotted clearly in the camera visual.

Results

The areas that were inspected included:-

- Subject
- Helicopter parts

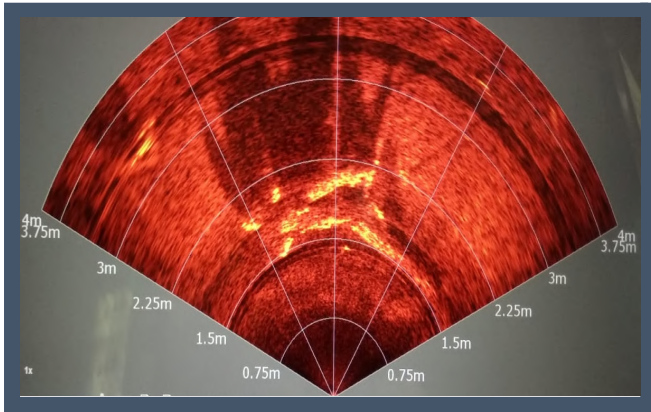


Fig1.Sonar Image of Subject

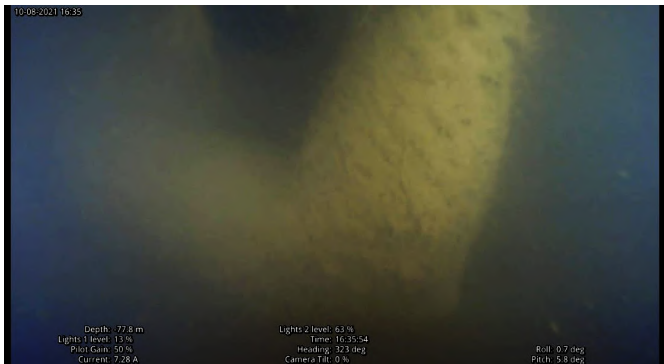
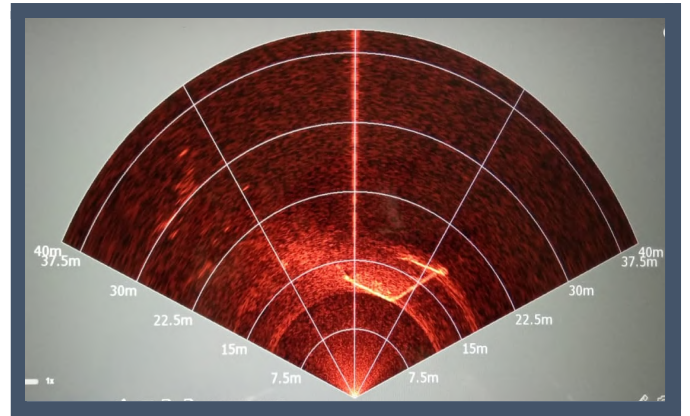


Fig 3.Camera Visual



Colonel Neeraj Khajuria
Colonel General Staff
(Operations)

1314/ Avn/GS (Ops)

Johns T Mathai
CEO & Director
IROV Technologies Pvt Ltd
(EYE ROV)
Kochi, Pin-683503

EMPLOYMENT OF C
TECHNOLOGIES PVT
SEARCH & RESCUE M

1. On 03 Aug 21 an un
Indian Army was reported a
The Search and Rescue Op
helicopter and its crew is un
and various agencies from
facilitate the search.
2. In this regard a Me
been signed between Eye R
(Kerala) and Indian Army
assistance in the operations
entails induction of the equip
notice and their mobilisation
upto Ranjit Sagar Dam, Path
3. In view of this all ne
crew may please be provide
based on the humanitarian
Forces.

