

APPROACH DETAILS

Ministry/Organization Name: Ministry Of Power

Problem code: PK365

Problem Statement: Remotely Operated Vehicle (ROV) for inspection of Head Race Tunnels in Hydro-electric plant.

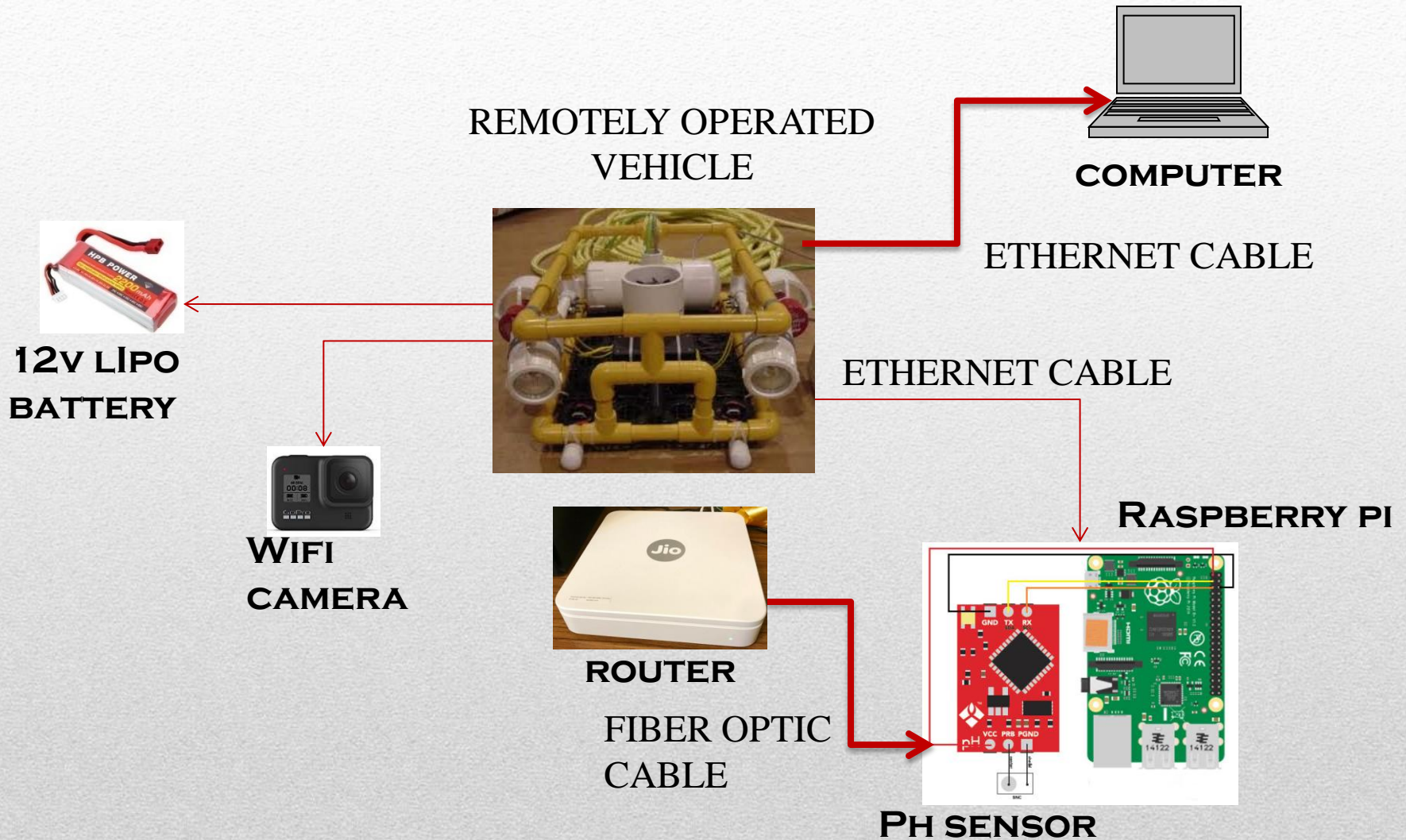
Team Name: Tech Tribe

Team Leader: VIHANG PATHAK

College Code:



PROTOTYPE DETAILS



Overview:

Head-race tunnel monitoring is a critical task, emptying the tunnel is not feasible.

Solution-ROV**Proposed Idea:**

ROV capable of diving deep down the tunnel and monitor it via wireless camera.

Connected through a fibre optic cable and a router

Methodology:

ROV controlled via Raspberry pi

Motion achieved  Vertical Motion: Ballast tanks ,thrusters
Horizontal motion: Propellers

Pi interfaced with pH sensor : Acidity detection

G-Pro : To monitor Tunnel cracks
