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Child Rescue System From Open Borewell

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Abstract: *The Child Rescue System using ESP 32 Camera and Motor Drivers is an advanced safety mechanism designed to assist in the rapid and safe rescue of children trapped in confined or hazardous spaces, such as bore wells or tunnels. The system is equipped with a 32-camera module array for comprehensive 360-degree real-time visual monitoring, enabling rescuers to assess the situation with high precision. The cameras are integrated with a microcontroller-based system that processes the feed and relays it to a control center for live supervision.*

To perform physical rescue operations, the system includes motor drivers and mechanical arms controlled via remote interface. These arms can be maneuverer to carefully lift or provide life-support tools (like oxygen masks) to the child without causing harm. The motor drivers ensure smooth vertical and angular movements of the rescue unit within the confined space.

The child who is stuck inside the hole is to be saved by the clipper which pick and place the child with the help of remote controller. The clipper is left inside manually by the rope tied up at its hands. In this alternative scenario there will not be any requirements of digging hole parallel to the bore well. It also consists of camera which is affixed to the clipper which is used for monitoring the child. By this camera we get the visuals of the child and their condition.

Keywords: *Child Rescue System*

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