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(57) Abstract :
ABSTRACT Automatic flow control device is an innovative concept which is a combination of Non return valve, Float valve, Auto inlet control valve. With this technique we can address most of the problems present in the existing valve control for inlet and outlet of OHSR™s (Over Head Service Reservoir). This technique can be used to supply the required quantity of water to all the villages with a minimum manpower to operate valves and also with minimum water wastage. To solve the manpower and water wastage problems the gate valves at the OHSR™s are to be automated. The inlet and outlet valves are to be opened and closed automatically as per the requirement. Due to the automation of the valves, the water distribution project could be maintained efficiently by only a few number of water men and with a very little water wastage. This in turn reduces the operation cost of the project and also rectifies the problems caused by the human errors. Automation of these valves is to be done only with the hydraulic water pressure available at the OHSR without utilizing any external power sources or electronic gadgets to open and close the gate valves. We will be using the energy of the water coming from the inlet pipe of OHSR to open and close the inlet and outlet valves of the OHSR. We are utilizing the simple and low cost hydraulics devises to automate the valve operation. This will in turn reduce the initial cost to automate the system. Since we are eliminating any sort of electronic gadgets, this attachment can be fixed to the OHSR™s located in the remote location where external power source in not available. Maintenance cost of the hydraulic devices is very less compared to the maintenance cost of electronic devises

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