WATER CONTROL SYSTEM

*Minor project of*

*Course Title: Skilling (LabVIEW/Multisim)*

*Course code: 17TS401*

*submitted by*

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**DEPARTMENT OF ELECTRONIC & COMMUNICATION ENGINEERING**



**CERTIFICATE**

This is to certify that the project based laboratory report entitled “WATER CONTROL SYSTEM” submitted by G.SRIDEVI, G.VAMSI, G.JASWANTH, bearing registration numbers 170040250, 170040262, 170040263, to the **Department of Electronic and Communication Engineering, KLEF** for the partial fulfillment of the requirements for the completion of a project based Laboratory in “SKILLING ”course in II year, B Tech III Semester, is a bonifide record of the work carried out by them under my supervision during the academic year 2018 – 2 019.

PROJECT SUPERVISOR HEAD OF THE DEPARTMENT

**ACKNOWLEDGEMENTS**

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Finally, we are pleased to acknowledge the indebtedness to all those who devoted themselves directly or indirectly to make this project report a success.

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**ABSTRACT**

The major tasks were the calculation of the water level in the tanker and displaying the level based on the output the increment and decrement of the water in the tank. The final front panel will show the water level in the tank, a rate of inflow and rate of outflow. The inputs we are taking are the rate of flow of water into the tank and the rate of the water flowing out of the tank. The output is the water level indication in the tank. Additionally, we are going to see the display of the led and alarm sound based on the water level in the tank, because it makes our task more clear and easier. The improvements of our project are it can be automated and if the water level is below 10 liters then automatically the switch need to be on and if the water level reached the 90 liters then it should automatically get off along with the manual switches to control. We will have two exception cases like water level becoming less than zero and the water level becoming more than 1000 liters, these two cases can be controlled by cutting the range to 0 and 1000 in the cases. i.e., if the water level is less than or equal to zero then the fixed value zero will be displayed in the tank as water level can’t be zero. In the same way if the water level reaches more than the 1000 liters then it will be fixed to 1000 liters as a result we can come out of the two error cases.

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* Manage multiple sources of water
* Provide water from source and need to supply
* Maintain required level of water in tank
* Provide real time monitoring of water level in the tank
* Need to check the rate of inflow and outflow and the level of water
* To provide the digital display

**List of Tables:**

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| --- | --- | --- | --- | --- | --- |
| **S.NO** | WATER LEVEL | LED | | | BUZZER |
| 1 | 100 | GREEN | | | OFF |
| 2 | 50-99 | PINK | | | OFF |
| 3 | 20-49 | BLUE | | | OFF |
| 4 | 0-19 | | RED | ON | |