**Source Code/Program:**

#include <LiquidCrystal.h>

LiquidCrystal lcd(7, 6, 5, 4, 3, 2);

int X;

int Y;

float TIME = 0;

float FREQUENCY = 0;

float WATER = 0;

float TOTAL = 0;

float LS = 0;

const int input = A0;

void setup()

{

Serial.begin(9600);

lcd.begin(16, 2);

lcd.clear();

lcd.setCursor(0,0);

lcd.print("Water Flow Meter");

lcd.setCursor(0,1);

lcd.print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

delay(2000);

pinMode(input,INPUT);

}

void loop()

{

X = pulseIn(input, HIGH);

Y = pulseIn(input, LOW);

TIME = X + Y;

FREQUENCY = 1000000/TIME;

WATER = FREQUENCY/7.5;

LS = WATER/60;

if(FREQUENCY >= 0)

{

if(isinf(FREQUENCY))

{

lcd.clear();

lcd.setCursor(0,0);

lcd.print("VOL. :0.00");

lcd.setCursor(0,1);

lcd.print("TOTAL:");

lcd.print( TOTAL);

lcd.print(" L");

}

else

{

TOTAL = TOTAL + LS;

Serial.println(FREQUENCY);

lcd.clear();

lcd.setCursor(0,0);

lcd.print("VOL.: ");

lcd.print(WATER);

lcd.print(" L/M");

lcd.setCursor(0,1);

lcd.print("TOTAL:");

lcd.print( TOTAL);

lcd.print(" L");

}

}

delay(1000);

}